Sydney Harbour: its diverse biodiversity

Pat A. Hutchings, Shane T. Ahyong, Michael B. Ashcroft, Mark A. McGrouther and Amanda L. Reid

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ABSTRACT

All records of crustaceans, molluscs, polychaetes, echinoderms and fishes from Sydney Harbour were extracted from the Australian Museum database, and plotted onto a map of Sydney Harbour that was divided into four regions. Records were analysed according to the number of species, genera and families present and over 3000 species were recorded, approximately double to triple the number of species found in the neighbouring Hawkesbury River, Botany Bay and Port Hacking. We examined the rate of accumulation of records and species over time since the 1860s, which followed a stepwise pattern usually correlated with the research activity of specific curators at the Australian Museum. The high species richness of Sydney Harbour is probably the result of multiple factors including significant tidal flushing and the high diversity of habitats present. Not all parts of the harbour have been well sampled, however, and we highlight areas and habitats that should be prioritised for further biodiversity surveys. An Appendix is provided listing all species in the five groups of animals considered here. The present study highlights the remarkable richness of the Sydney Harbour fauna and provides a consolidated background to guide future management and research, and emphasises the values of museum collections.

Key words: Sydney Harbour, diversity, crustaceans, molluscs, polychaetes, echinoderms, fishes

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Introduction

Sydney Harbour is a drowned river valley that formed during a rise in sea level approximately 10,000 years ago. The entrance, between North and South Heads (~33°50'S, 151°17'E), is about 3 km wide, with a depth of 30 m. The estuary then opens up into Port Jackson, which is fed by three main branches, the Parramatta and Lane Cove Rivers to the west and Middle Harbour to the north (Figure 1). The estuary is about 30 km long with a surface area of about 50 km^2 and a total catchment of 500 km^2 (Birch and McCready 2009). Most of the harbour (49.7 km^2) is under tidal influence (Middleton *et al.* 1997).

The shores of Sydney Harbour are largely developed, with 90% of the catchment urbanised. Sydney is Australia's largest city with a population of 4 million people and all projections indicate it will continue to grow. The original shoreline of Sydney Harbour has been

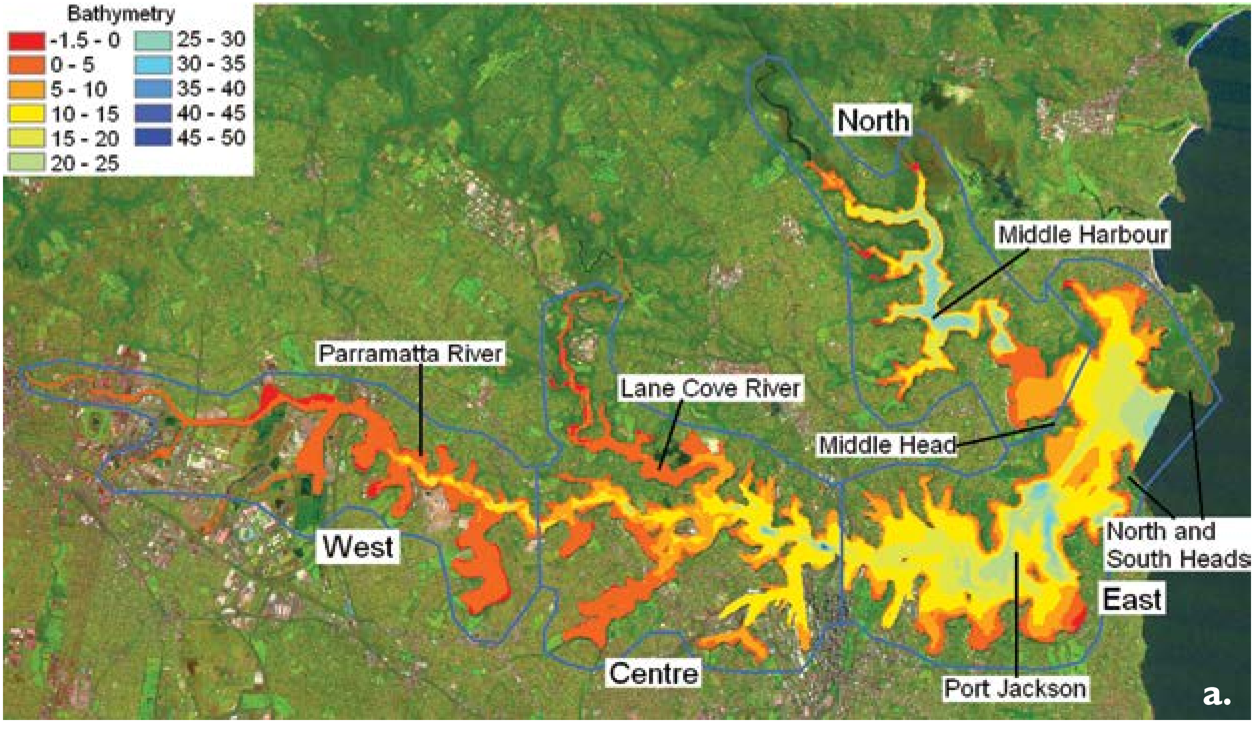


Figure 1a. The bathymetry of Sydney Harbour, (depths in m) in relation to zero on the Fort Denison tide gauge (courtesy of Phil Mulhearn and based on the soundings database from Roads and Maritime Services).

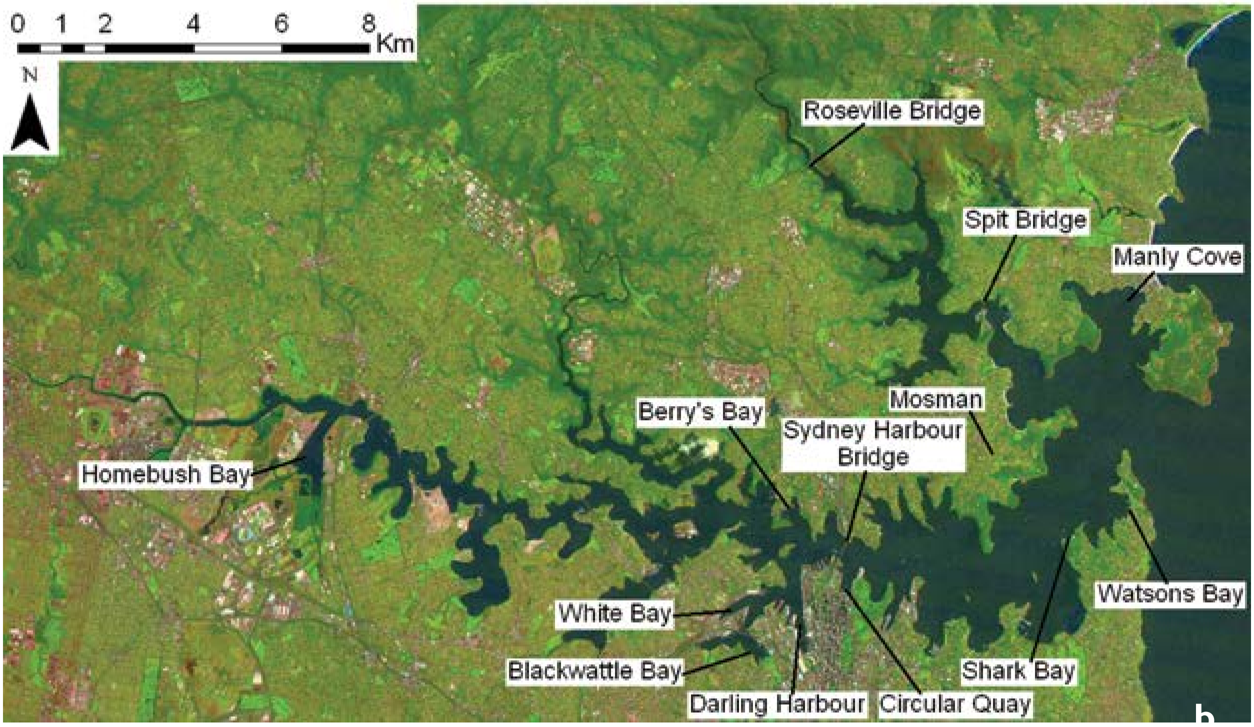


Figure 1b. The four regions that were analysed in this study (East, West, Central and North), and the locations of places mentioned in the text are shown.

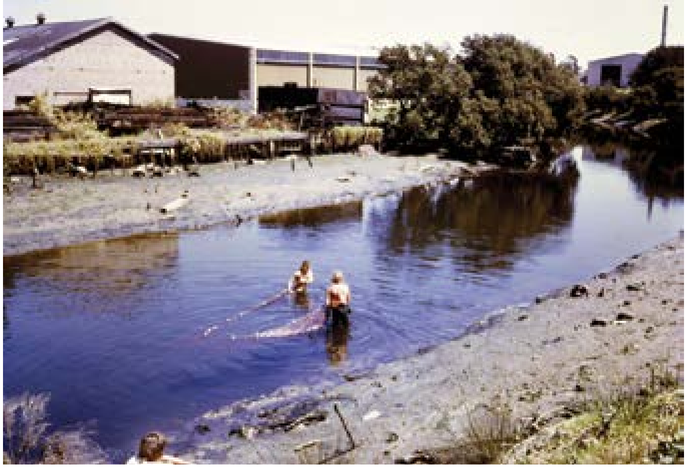


Figure 2. Members of John Paxton's Macquarie University Biology of Fishes class sampling in Duck River, upper Sydney Harbour, 12th October 1974. The only fishes collected were one specimen of a Southern Shortfin Eel, *Anguilla australis* and 36 Eastern Gambusia, *Gambusia holbrookii*. Photo, John Paxton

extensively modified since European settlement, with the development of seawalls, removal of mangroves and salt marshes, and small creeks now lined with concrete, forming storm water drains (Figure 2). As an iconic feature of the city, Sydney Harbour has strong aesthetic values and is heavily used for recreational purposes, such as sailing, swimming and fishing. Land values of water-front property, especially east of the Harbour Bridge, are among the highest in the world. Commercial fishing has been totally banned from the harbour since 2006 due partly to streamlining of commercial fishery licensing and reported high levels of dioxins (http://www.dpi.nsw.gov.au/fisheries/recreational/info/Sydney-closure), although recreational fishing still occurs.

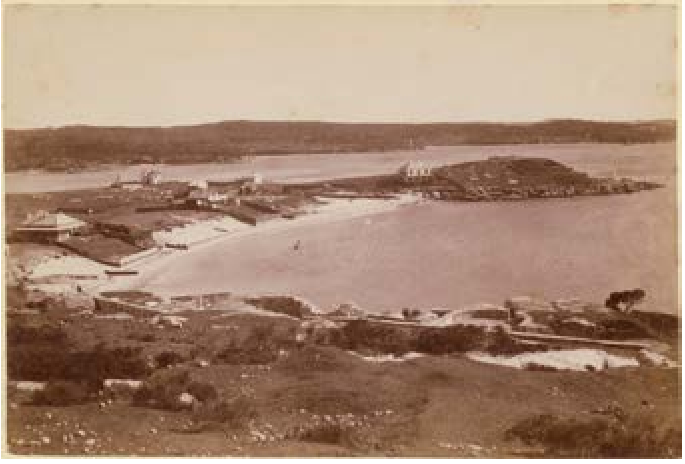


Figure 3. Site of the first marine Biological Station at Camp Cove, circa 1885-1895. The station, a charming colonial cottage, was built on the foreshores of Sydney Harbour in 1881 for Russian scientist and explorer Nikolai Nikolaevich de Miklouho-Maclay to study Australia's marine environment. Built of timber with sandstone foundations, the cottage is typical of the practical colonial architecture of the time. It was located at historic Camp Cove, where the First Fleet rested for a night before landing at Sydney Cove. Miklouho-Maclay worked at the Marine Biological Station for just four years, before returning to Russia where he died in 1888. After the late 1880s until 2001 the cottage was a residence for army officers. Today it is a private residence. Photo: courtesy of the State Library. For more details see http://www.harbourtrust.gov.au/docs/brochure-marine.pdf

Thus, it is somewhat surprising that no comprehensive examination of the biodiversity of Sydney Harbour has been undertaken to date, given that Sydney is home to one of the oldest natural history museums in the world (The Australian Museum), five universities and, more recently, the Sydney Institute of Marine Sciences (SIMS). Back in the 1880's there was a marine station at Camp Cove which was built for the Russian scientist and explorer Nikolai Nikolaevich de Miklouho-Maclay to study Australia's marine environment (Figure 3). Prior to this he had been invited by William John Macleay to live at Elizabeth Bay House and to use its small laboratory. The New South Wales Government provided 300 pounds towards the cost of construction with Nikolai Nikolaevich de Miklouho-Maclay raising the remainder of the money through donations to the station which was built in 1881. This Russian scientist also visited the Australian Museum and we are confident that some specimens collected from this station were subsequently deposited in the Australian Museum.

Sydney Harbour is much less known than other estuaries in Australia such as Port Phillip Bay and Moreton Bay, or overseas estuaries, such as San Francisco Bay and Chesapeake Bay in the USA. To provide a baseline for guiding future management and research, we have examined the Australian Museum databases of fishes and four numerically dominant marine invertebrate groups to begin to document the diversity of Sydney Harbour.

The Australian Museum collections date back to at least 1828. The earliest documented fish record from the harbour is from 1878, but many undated records may be older. Among the molluscs, the earliest records are from 1860, 1882 for crustaceans and 1885 for both polychaetes and echinoderms. Australian Museum staff have actively collected material over the decades from Port Jackson as shown in Figures 4 and 5 (McNeil and Musgrave 1926).

Previous attempts to compile faunal lists of the harbour were undertaken for fishes by Franz Steindachner (1866) and invertebrates by Thomas Whitelegge (1889). Steindachner, of Vienna, dealt with 71 species, describing 21 as new (Saunders 2012), including the Eastern Sea Garfish, *Hyporhamphus australis* and the Eastern Pomfred, *Schuettea scalaripinnis.* Whitelegge was a curator at the Australian Museum and assembled all the known data from the literature and the collections. Relevant here is that he recorded 112 species of echinoderms and while stating that the other groups were present, he indicated that much work remained to be done on these groups. Thus, the aims of this study are to provide the most up-to-date summary of the harbour fauna. The present study compiles all the Australian Museum records (plus a small number of photographic records) from Sydney Harbour of polychaetes, crustaceans, molluscs, echinoderms and fishes; documents and broadly evaluates the distribution of species within the harbour, and identifies areas of the harbour that have been poorly sampled.

Methods

All Australian Museum database records from the Sydney region of polychaetes, crustaceans, echinoderms, molluscs and fishes were extracted (23 December 2011). Less diverse groups of marine invertebrates, such as sponges, bryozoans and cnidarians, having relatively few collection records, were not included. Geographic Information Systems software (ArcMap; ESRI) was used to select records that were within Sydney Harbour according to the blue polygon in Figure 1a. Many records, especially early ones, have imprecise position data, so including records on surrounding land helped ensure records with low positional accuracy were included. Terrestrial and freshwater species were manually removed as well as those where the collection locality description suggested they were collected close to, but outside of the study area, such as Manly Beach and Shelly Beach, on the ocean side of Manly. In addition, some specific types of records were deleted, such as records for beach-collected dry cuttlebones belonging to deepwater species that probably drifted from some distance offshore and some fossil or sub-fossil molluscs.

Some of the early records only give Port Jackson as the locality; for these records the latitude and longitude values were generalised as a position east of the Harbour Bridge. In some cases, 'Port Jackson' could indicate the specimens were obtained from the Sydney Fish Market and thus may not have been collected from within the harbour, but further afield in the Sydney region; obviously

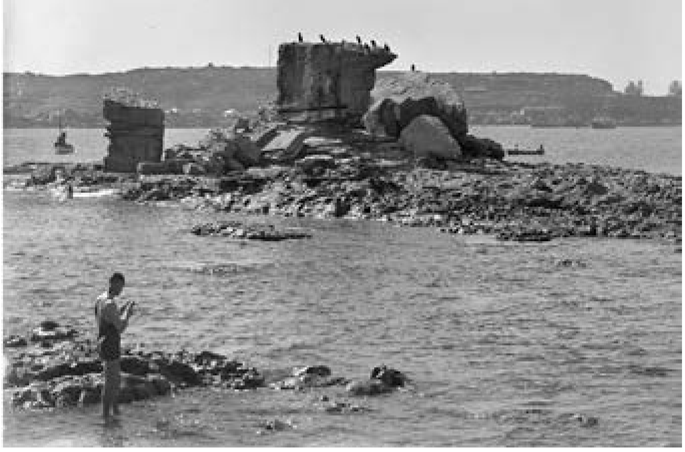


Figure 4. Bottle and Glass Rocks from McNeill and Musgrave (1926) who quote, 'when the tide is out long lines of rocks lie exposed in the bed of the channel and provide for the marine zoologist one of the richest collecting grounds in Australia'. Photo: Anthony Musgrave, from Australian Museum archives.

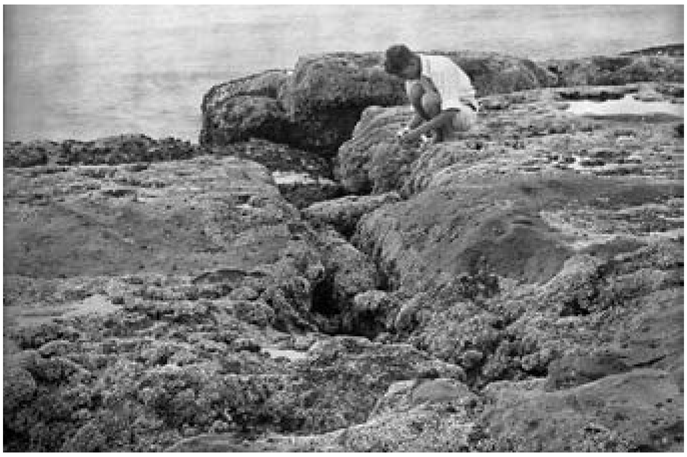


Figure 5. Bottle and Glass Rocks from McNeill and Musgrave (1926) who quote, 'The crevices of the outer rocks in the surf zone are encrusted with the hard limy tubes which are the dwellings of the vast numbers of Galeaolarian worms'. Photo: Anthony Musgrave, from Australian Museum archives.

this only applies to commercial species. The total number of records, as well as the numbers of families, genera and species was calculated for each of the five taxa (fishes, molluscs, polychaetes, crustaceans and echinoderms) separately and in combination. Not all specimens have been identified to species, and some represent morphospecies or are species currently identified only to a higher taxonomic level. We used WoRMS (http://www.marinespecies.org/) to check currently accepted names.

The number of records collected in each year was calculated, with the mean used when a range of dates was given. For example, a record with a stated collection date of 1950–1960, was deemed as 1955. Records without a collection date were counted separately. To display the spatial pattern of records, the study area was divided into a 500 m × 500 m grid, with the number of records in each grid counted and displayed in ArcMap. These analyses were performed to understand the spatial and temporal biases in sampling, and do not necessarily represent the true distribution of biodiversity in the harbour.

Sydney Harbour was divided into four regions: East, Centre, West and North (Figure 1a). We separately counted the number of species in each of the taxonomic groups in each of the four regions. Accumulation curves were produced for each taxon and region based on the earliest record of each species. These accumulation curves illustrate how the number of species in the Australian Museum collection has grown over time and give an estimate of known species richness in the harbour.

Results

With the exception of molluscs, the majority of records for the selected groups are databased and each of these groups is now discussed. A complete list of species recorded is given in the Appendix. Each species list was checked by one of the authors with expertise in the group. The most recent taxonomic names were used where available but no attempt was made to re-check the database records against specimens. However, every record can be referred back to a specimen, (or, in the case of a few fish records, to a photograph) in our collections. This is the first attempt to collate the fauna of Sydney Harbour since Whitelegge (1889) and hopefully will encourage future studies and re-examination of these museum collections.

Polychaetes

1250 records of polychaetes representing 40 families, comprised of 308 species belonging to 189 genera, with some only identified to genus or in some cases only to family are recorded in the Australian Museum database (Figure 6, Appendix). The families best represented in the Appendix largely reflect the research focus of both

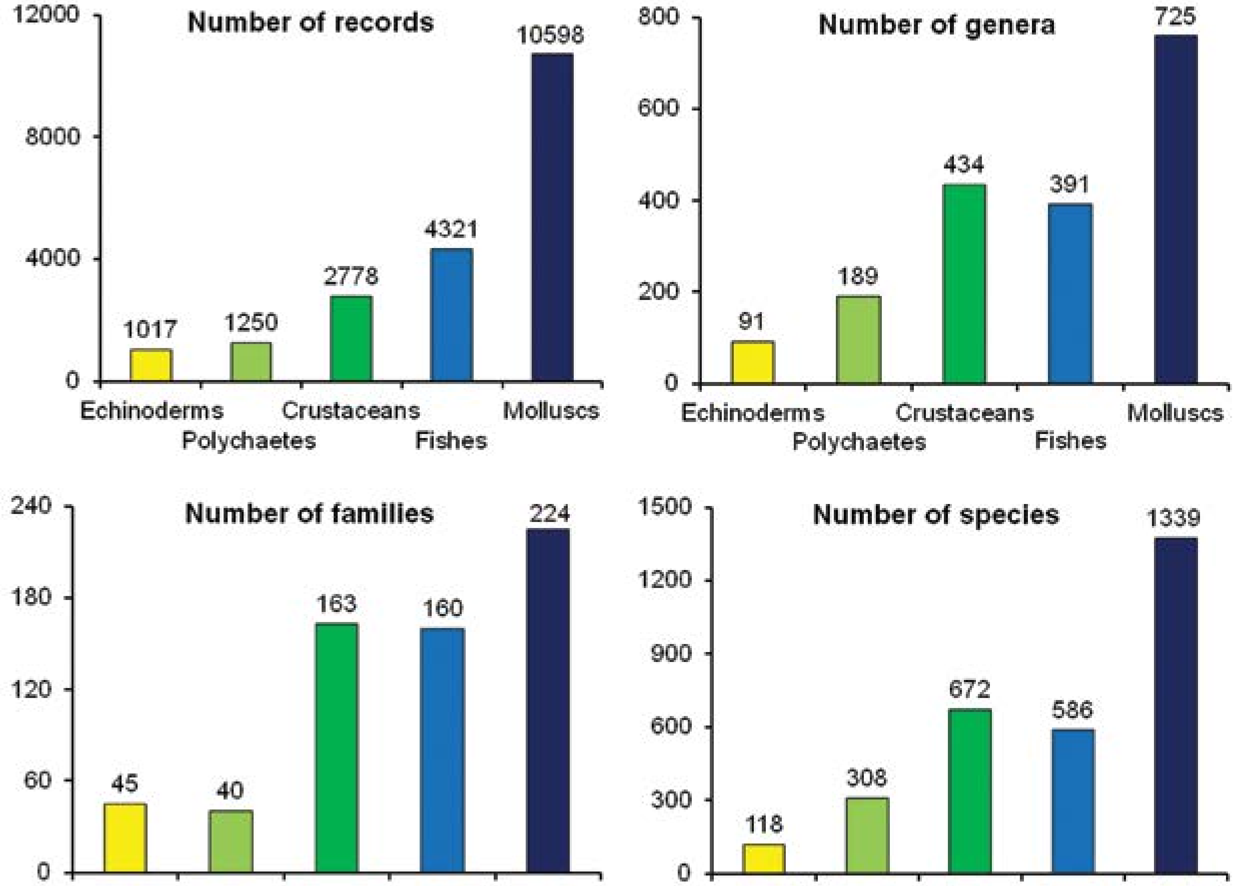


Figure 6. The number of records from the Australian Museum database that were analysed in this study, along with the number of species (including morphospecies), genera and families represented for each group. Taxonomic identifications were based on the database, and were not checked against the actual specimens.

Australian Museum and visiting systematists. Over 80 polychaete families are known globally and currently 40 families are present in the harbour according to the Australian Museum database. However, we know of several other families from the harbour, such as Acoetidae, Magelonidae, Paraonidae and Pisionidae, although specimens of these are yet to be fully identified and databased.

Polychaetes have been recorded throughout the catchment although records from Middle Harbour and Lane Cove are sparse and restricted to the lower reaches (Figure 7). In contrast, records from the Parramatta River are largely restricted to the upper reaches of the river, as a result of various surveys conducted prior to the Sydney Olympics for the Olympic Co-ordinating Agency (Australian Museum Business Services 1993). This is not surprising given that polychaetes are primarily marine and while the upper reaches of the harbour are fully marine during dry conditions, salinity levels fall in these regions after periods of heavy rain. This probably prevents the establishment of diverse polychaete assemblages, although those species present can be abundant (for example, high numbers were recorded during a bird feeding survey around Homebush Bay (Hutchings 1996)). The bulk of polychaete species are from the East and Central regions (Figure 8), primarily from the shores or shallow water. Few are recorded from deeper water, especially in the Eastern region as little sampling of sediments has occurred there. Many polychaete species occur in sediments and have very specific habitat requirements (Hutchings 1998) so we anticipate additional new species will be recorded based on the range of deeper water sediments types present in the harbour.

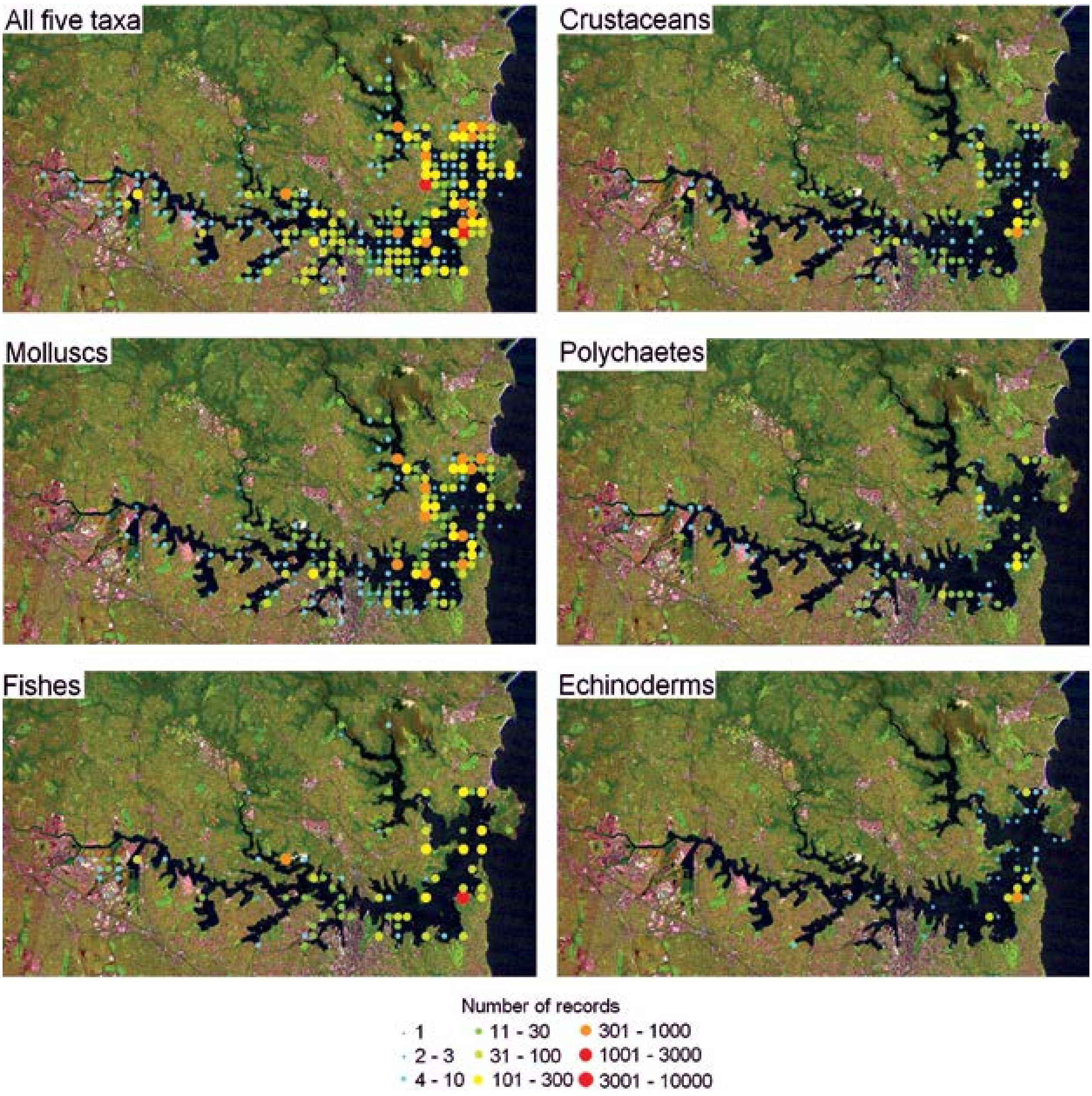


Figure 7. The harbour was divided into a grid of 500 m × 500 m squares. Dots show the number of records in each square. Records vary in collection location precision. In some cases the actual collection locations may differ from those shown on the map.

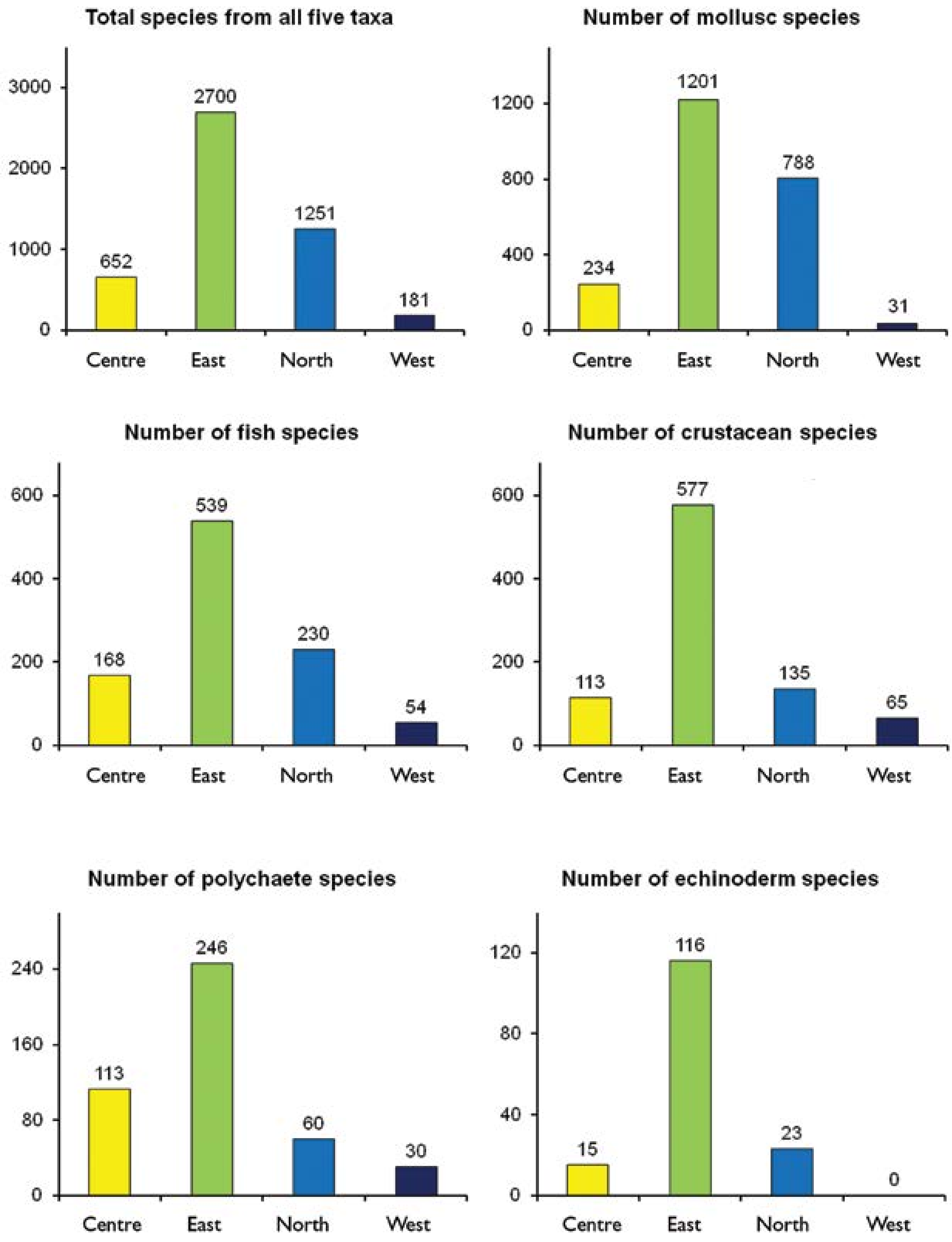


Figure 8. Number of species recorded from each of the four regions of the harbour (Figure 1).

Examination of the time periods when polychaetes were collected (Figure 9) reveals a small peak in the first decade of the twentieth century, followed by very spasmodic collecting until the 1970s. After this, more intensive collecting was undertaken, with a major spike recorded in 2001. This spike is reflected in all other groups and is the result of a major a marine biosecurity survey of Sydney Harbour undertaken for Sydney Ports Corporation (Australian Museum Business Services 2002) (Figure 10). Another reason for the increasing number of species and records after 1970 was the appointment of a polychaete specialist, which has also encouraged overseas workers and postdoctoral researchers to study the collections, including those from Sydney Harbour.

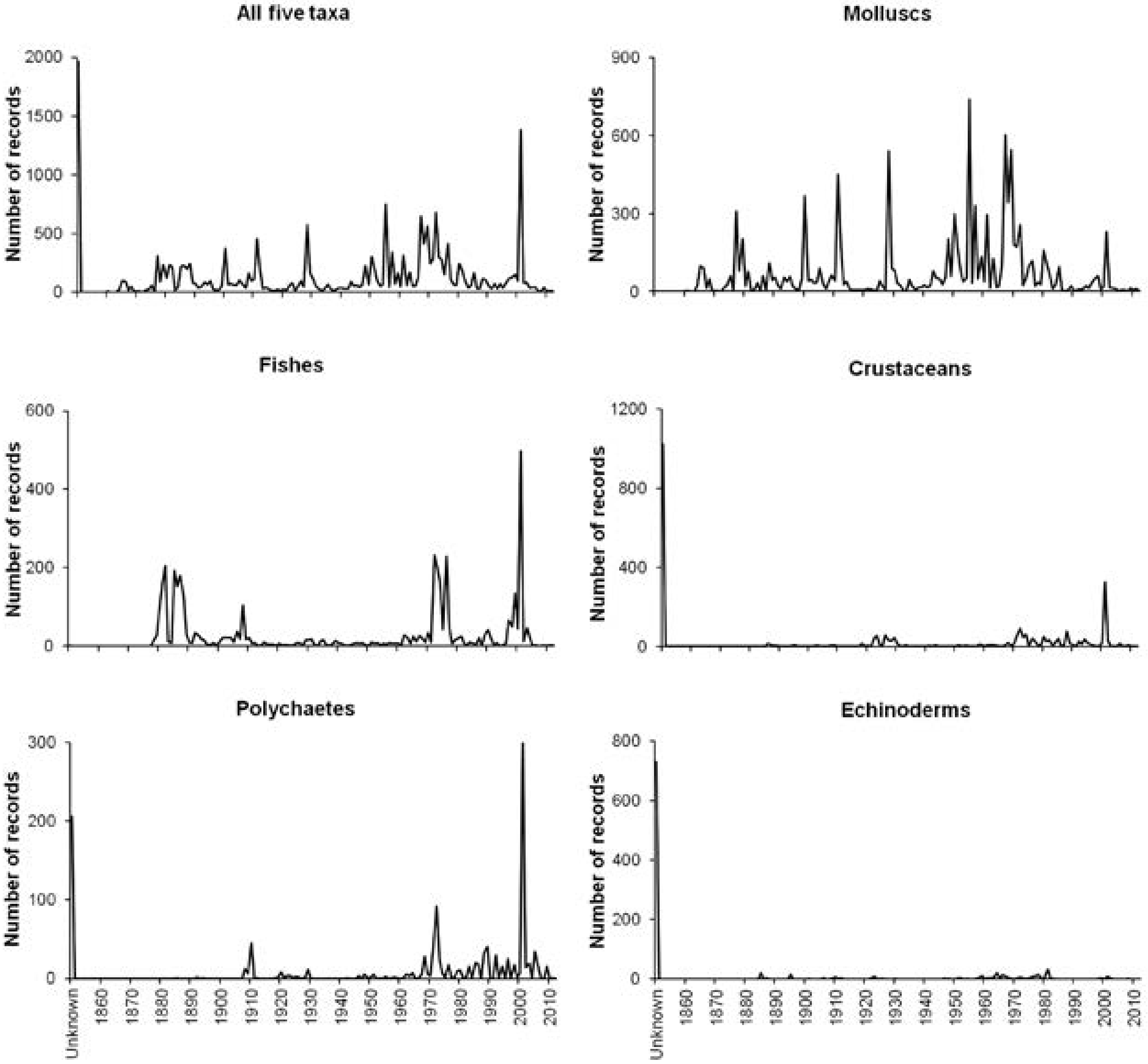


Figure 9. The number of specimens collected in each year since 1850, with unknown year of collection included separately to the left of the year 1860. Averages were used when the collection period included a range of years (e.g. 1955 for 1950–1960).

Figure 10. Museum staff sampling during the Sydney Port Survey for Introduced Marine Species for Sydney Ports Corporation at Gore Bay. Photo, Penny Berents. Australian Museum.

If one considers the species accumulation curve (Figure 11), it is still rising, with most species recorded from the Eastern region (i.e., east of the Sydney Harbour Bridge). Most of the species have been recorded since the 1970s coinciding with the availability of SCUBA and the museum's increased research effort. Far fewer species are recorded from the other regions although the numbers of species increased dramatically in the Central and Eastern regions following a marine biosecurity survey in which those areas associated with commercial shipping were systematically collected (Australian Museum Business Services 2002).

Polychaetes predominantly occur as infaunal and encrusting species, although some are pelagic (Figures12-15 illustrate some common species). Comprehensive benthic sampling has not been carried out in the harbour and most records are from the intertidal and from SCUBA diving where kelp holdfasts

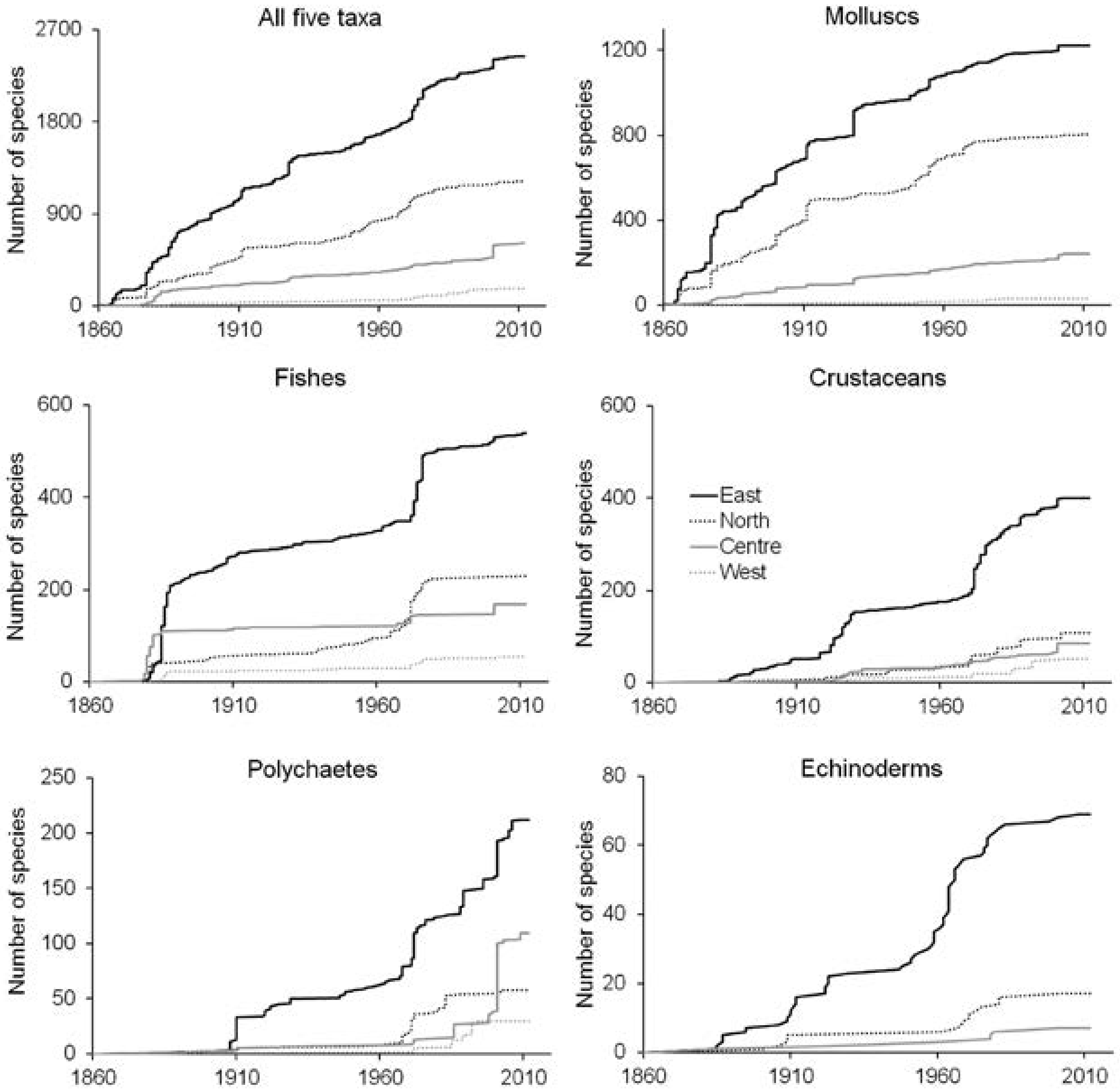


Figure 11. Cumulative numbers of species recorded in the harbour over time. Records and species without a year of collection were not included in this analysis.

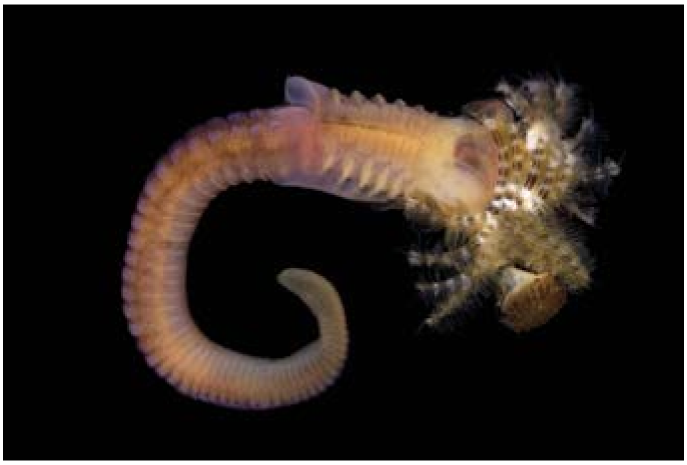


Figure 12. *Hydroides ezoensis* (F. Serpulidae). Animal removed from its calcareous tube, an encrusting species found on wharf piles introduced from Japan. Photo, E. Nishi.

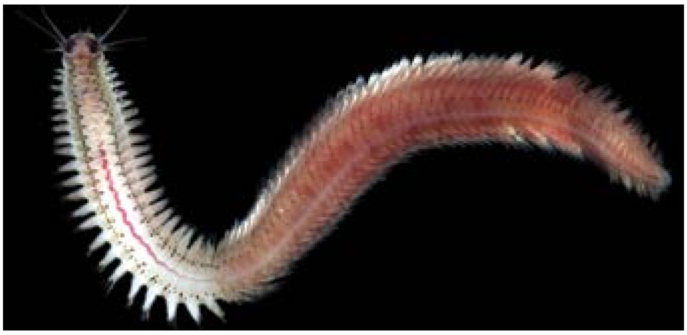


Figure 13. *Perinereis akuna* (F. Nereididae). A mature polychaete with posterior segments modified for swimming and full of gametes, occurs under rocks in the intertidal and shallow subtidal. When fully mature it swims in the water column using the expanded parapodial lobes and swimming chaetae and dehisces and releases gametes into the water column where fertilisation occurs; the deflated worm body dies. Spawning is co-ordinated by environmental cues. Photo, Denis Riek.

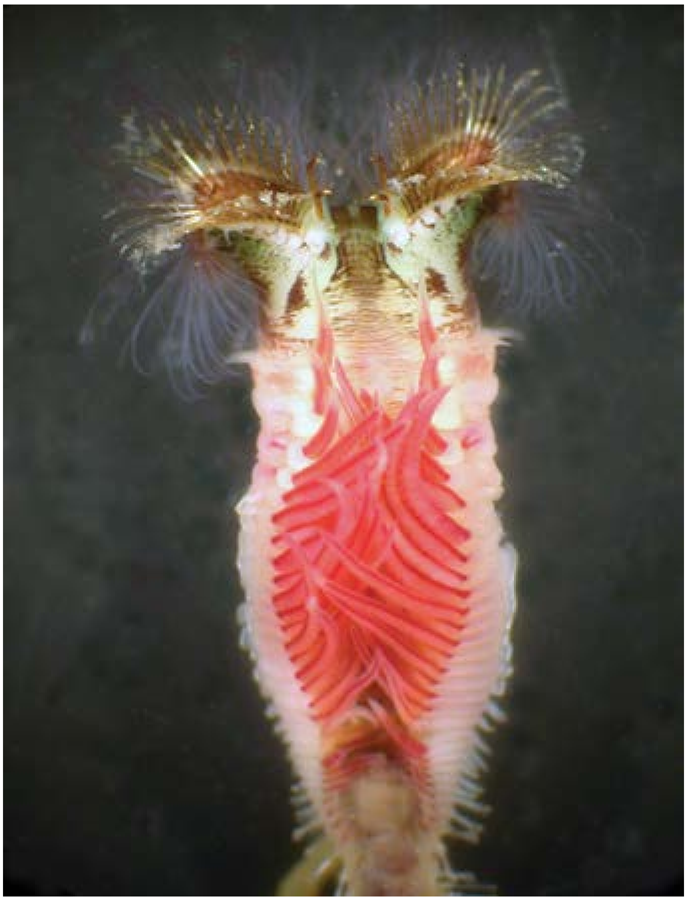


Figure 14. *Idanthyrsus australiensis* (F. Sabellariidae) originally described from Sydney Harbour and may have been collected from the Marine Station at Watson's Bay, occurs in sandy tubes cemented onto rocky surfaces, gregarious polychaete. Photo, Maria Capa.

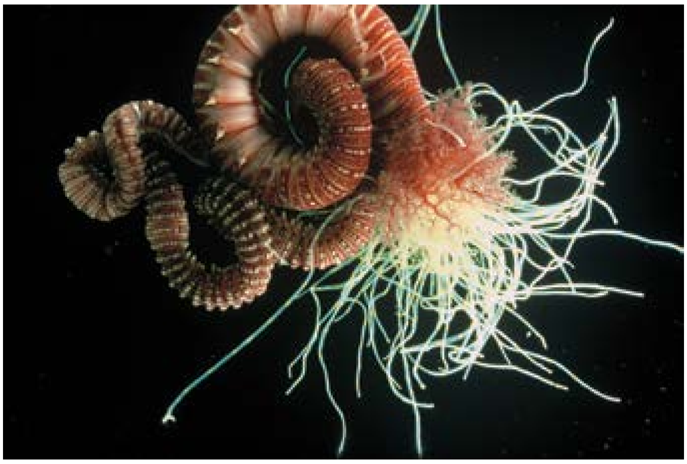
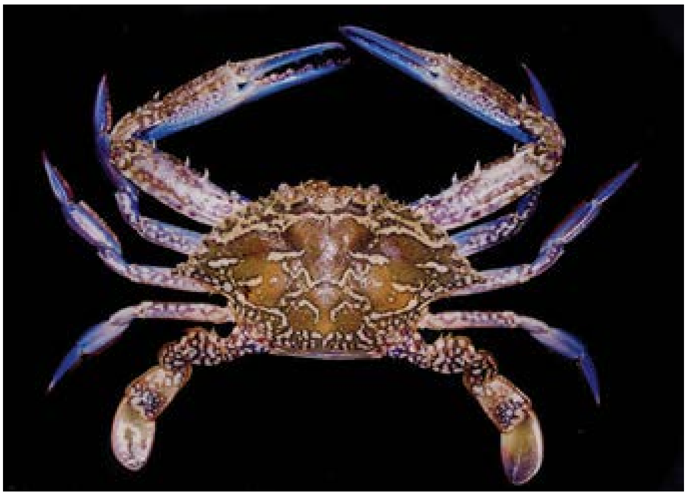


Figure 15. *Loimia ingens* (F. Terebellidae) a tubiculous polychaete found living in muddy sediments and among seagrass beds. Photo, Kathie Atkinson.



Figures 16. Blue Swimmer, *Portunus armatus*, was previously known in Australia as *Portunus pelagicus*. It is an important commercial species around Australia and is common in Sydney Harbour on soft sediments, especially in the eastern region. Photo, S. Ahyong.

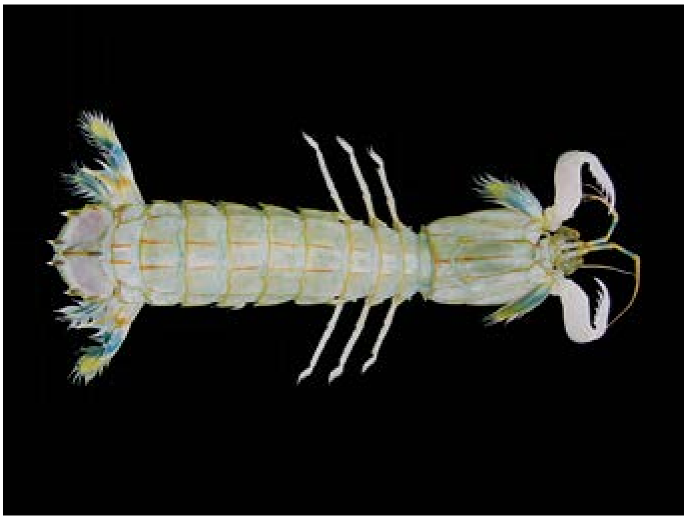


Figure 17. Mantis Shrimp, *Erugosquilla grahami*, is one of several large mantis shrimp species found in Sydney Harbour and was discovered in the mid 1990s. It is a marine predator ranging from Australia to Taiwan. In Sydney Harbour, it burrows in sand and mud in the eastern region. Photo, S. Ahyong.

and sponges are often collected to reveal associated polychaetes, plus scrapings from pylons. This suggests that many more species of polychaetes remain to be recorded from Sydney Harbour. Deeper water habitats east of the bridge, under Spit Bridge and areas inside of North and South Heads have barely been sampled. The same applies to subtidal soft sediments throughout the harbour. As our knowledge of the coastal polychaete fauna increases we would anticipate also finding many species new to science within the harbour. This is also reflected in the species accumulation curve for polychaetes (Figure 11) especially for the Eastern and Central regions that show little evidence of levelling off. In contrast, the apparent levelling off in the Northern and Western regions is possibly a sampling artefact rather than a real plateau.

Crustaceans

Crustaceans are the dominant marine arthropods and include crabs, shrimps, lobsters, isopods, amphipods and barnacles (Figures 16-18 illustrating some of the diversity). They occur throughout the harbour to the geographical limits of the study (Figure 7) and are represented by 2778 records distributed in 163 families, 434 genera, and 672 species (Figure 6, Appendix). The crustacean fauna of the harbour is extremely rich, comprising temperate water species along with typically warm water species that are temporary residents brought by the East Australian Current, or for which Port Jackson is part of their southern range limit (Ahyong 2004; Poore 2004).

With many significant commercial species, such as School Prawns (*Metapeneaus* spp.), Blue Swimmer Crabs (*Portunus armatus*) (Figure 16), Mud Crabs (*Scylla serrata*) (Figure 18) and Eastern Rock Lobsters (*Sagmariasus verreauxi*), crustaceans in the Australian Museum collection date back to at least 1876. Growth in the Sydney Harbour crustacean collections (and the number of species discovered, as new records for the harbour or species new to science) correlates with research effort, with a peak in the 1920–30s, a peak in the 1970–80s and a spike in 2001, see Figure 9). As is evident from the species accumulation curve, the number of species discovered in Sydney Harbour has increased across all regions in several large steps. From the 1930s to the late 1960s, crustacean discovery in the harbour was low (Figure 11), corresponding with a lack of specimens collected during this period (Figure 9). It improved significantly with the appointment of curators such as Yaldwyn and Griffin in the late 1960s early 1970s, resulting in the peak in collection records and numbers of new discoveries in the 1970–80s. The 2001 spike in records is attributable to the Sydney Harbour Biosecurity Survey conducted for the Sydney Ports Authority (Figure 10), although the limited number of new species records obtained at that time suggests that most species from the immediate port environment have already been observed.

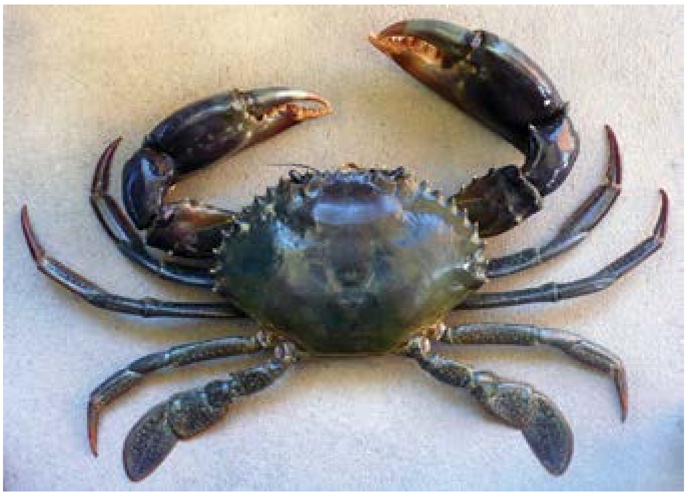


Figure 18. Mud Crab, *Scylla serrata*, is a popular commercial species that lives in muddy, mangrove habitats. It occurs widely in the tropics and occurs all along the New South Wales coast. In the harbour, it occurs mostly in the central and western regions as well as in Middle harbour. Photo, S. Ahyong.

Figures 19. Comb Sea Star, *Astropecten polyacanthus*, burrows in sand and mud, and is common around Sydney. It is one of the few echinoderms in the harbour to tolerate low salinities. Photo, S. Ahyong.

As expected, the numbers of species recorded from different parts of the harbour differ significantly, with highest diversity in the Eastern region (Figure 8). This no doubt is partially influenced by the higher level of sampling in the east, but also the wider range of habitat types including rocky reefs and seagrass beds, and more stable marine conditions that typically favour higher species richness (Edgar *et al*. 1999; Teske and Wooldridge 2001). The Northern and more westerly regions are increasingly estuarine and more strongly affected by freshwater input (and urban runoff) than the Eastern region.

The harbour has consistently yielded new species records, even though research effort has been sporadic, especially in the past 20 years. For instance, Sydney Harbour holds the southernmost records for the tropical reef lobster, *Enoplometopus occidentalis*, the tropical mantis shrimps, *Erugosquilla woodmasoni* (Figure 17) and *Levisquilla jurichi,* and tropical swimming crab, *Charybdis granulata* (Ahyong 2001, 2006; Ahyong and Lee 2005). A large new species of mantis shrimp, *Erugosquilla grahami,* was discovered in Sydney Harbour only in 1994, among the commercial catch of prawns and other mantis shrimp, dominant among them, the introduced Japanese mantis shrimp, *Oratosquilla oratoria* (Ahyong and Manning 1998; Ahyong 2001). The species accumulation curve for Crustacea is currently plateauing and is most likely attributable to the low level of recent research effort (Figure 11). Targetted surveys in the harbour will almost certainly result in numerous new discoveries, especially in the Eastern region.

Echinoderms

Echinoderms, which include sea urchins, sea-stars and sea cucumbers, are a relatively small group with around 1200 species known from Australia. Sea urchins and sea-stars can be numerically abundant, especially on rocky reefs and other hard substrates (Figures 19-22 illustrate the diversity). For Sydney Harbour 1017 records, distributed in 45 families, 91 genera and 118 species exist in the Australian Museum collections (Figure 6, Appendix).

The growth in harbour records and consequent number of echinoderm species discovered in the harbour has substantially increased from 1860 until now (Figure 11), although the majority of old records do not have a specific collection date (Figure 9). As with Crustacea, the rate of discovery follows a step-wise pattern with the largest jump in the late 1960s. This jump follows the expansion

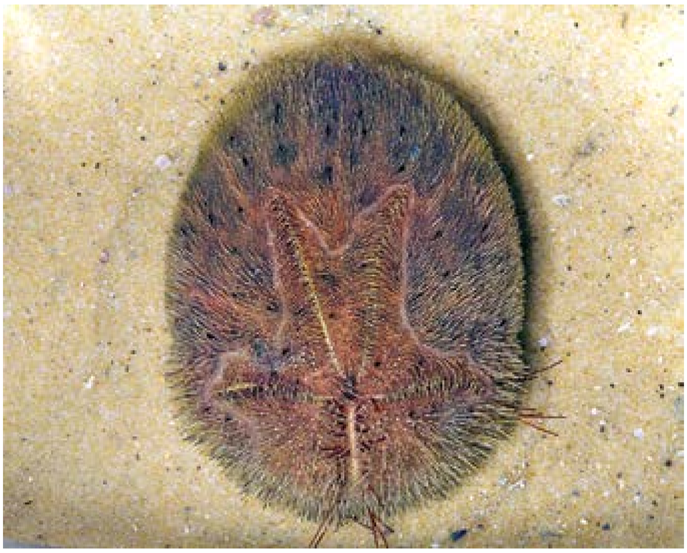


Figure 20. Heart Urchin, *Brissis agassizii*, is seldom seen because it generally lives below the surface of the sea-bed. It occurs widely in the Indo-Pacific, and in Sydney Harbour, is found in the eastern region. Photo, Ashley Miskelly.

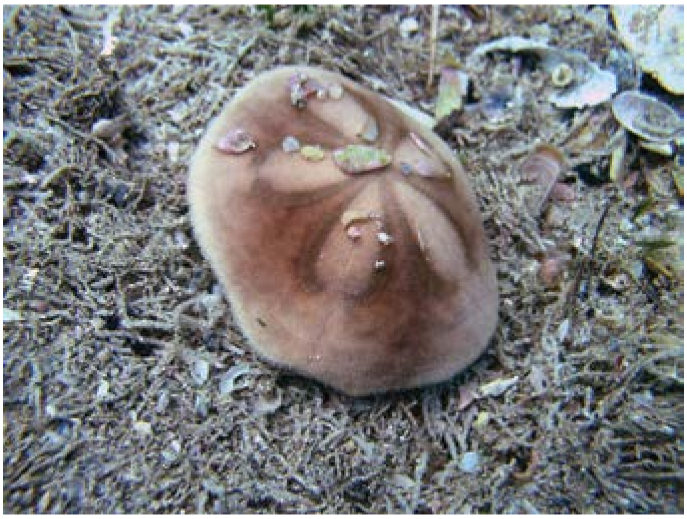


Figure 21. Sand dollar, *Clypeaster australasiae*, is a sea urchin with very short spines. It occurs on sand and shelly substrates in the eastern harbour. Photo, Ashley Miskelly.

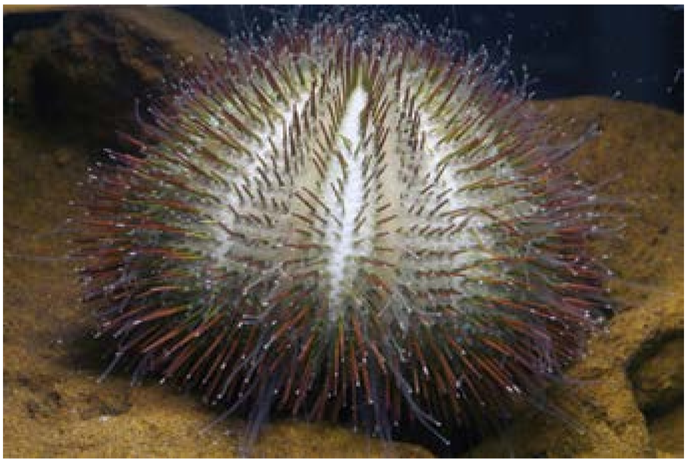


Figure 22. Sea urchin, *Temnopleurus alexandri*, is a high-domed urchin that lives on rocky reefs in the eastern harbour amongst seaweeds. It usually camouflages itself with debris and weed fragments. Photo, Ashley Miskelly.

in numbers of research staff at the Australian Museum in the late 1960s and early 1970s, among them, echinoderm specialist Frank W. E. Rowe, with tenure at the Australian Museum from 1974 to 1989.

Of all groups surveyed, the echinoderms have the fewest records and species outside the Eastern region, and none in the Western region (Figures 7, 8). This pattern owes largely to the biology of echinoderms, the majority of which are poor osmoregulators that do not tolerate significantly fluctuating salinities (Diehl 1986). As such, the majority of records are from the eastern-most harbour habitats.

Molluscs

Among the taxonomic groups included in this paper, the molluscs comprise the greatest number of records (10,598), families (224), genera (725) and species (1339) (Figure 6, Appendix) (Figures 23-28 illustrate some of the diversity). This pattern follows a wider trend and these relative proportions are mirrored throughout the Australian Museum marine collections.

The mollusc collection dates from around 1860 and many of the 'peaks' seen in Figure 9 coincide with major donations. Rather than necessarily reflecting peaks in collecting activity, these spikes correspond to acquisitions of large collections or the date of the death of a collector if the specimens were acquired after that time. Often the early collectors did not record the date of collection with their specimens, so the collection dates were recorded by the museum as merely prior to the date of acquisition. Starting from the earliest to the most recent, the peaks (Figure 9) likely correspond to the following acquisitions of more than 3000 specimens that did not have exact collection dates with the specimens (some of these were former Australian Museum curators who may have acquired specimens from third parties): 1877, W. H. Hargraves collection donated; 1900, pre-1900 material from various sources; 1912, J. C. Cox collection donated; 1930, M. J. Waterhouse collection donated; 1965–1966, T. A. Garrard collection donated; late 1960s, C. F. Laseron collection donated; and in 1970, L. Woolacott collection

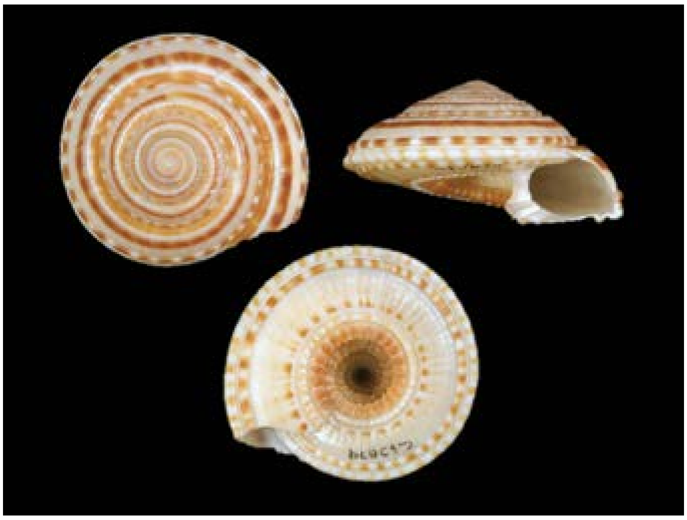


Figure 23. *Architectonica perspectiva fressa*, holotype. This species were first described from specimens collected in Sydney Harbour. Photo, Mark Allen.

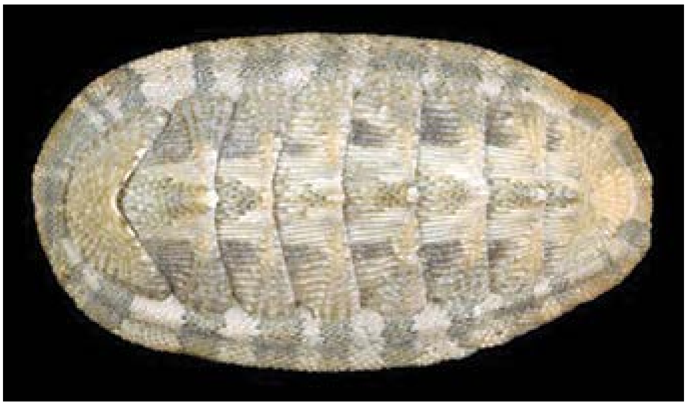


Figure 24. *Chiton vauclusensis*, holotype. This species were first described from specimens collected in Sydney Harbour. Photo, Mark Allen.

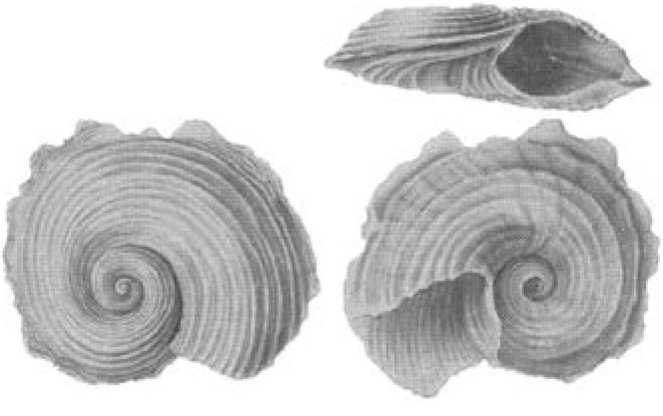


Figure 25. *Laciniorbis morti*. This drawing was done by Joyce Allan for Records of the Australian Museum. Sydney Harbour is the type locality for the species. Australian Museum..

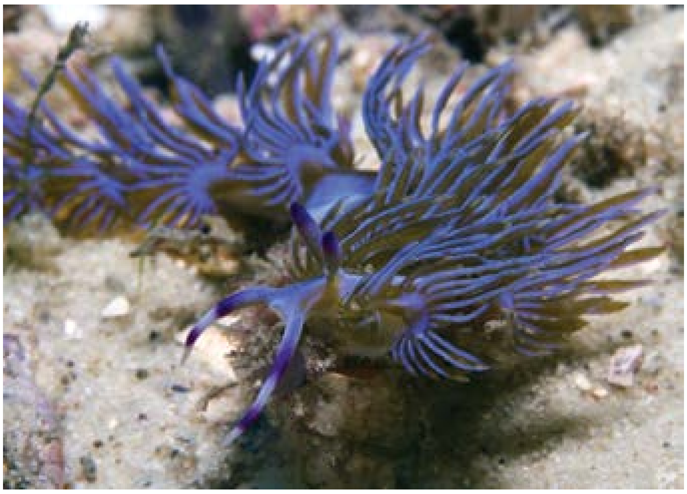


Figure 26. *Pteraeolidia ianthina*. This 'solar powered' Sea Slug is commonly known as the 'Blue Dragon' by divers in eastern Australia. Photo, Matt Dowse.

donated. Other peaks possibly correspond to the activities of various museum curators some of whom were more avid collectors than others, or actively identified and catalogued local species. Most recently, Winston Ponder, who became Curator of Molluscs in 1968, has contributed significantly to the museum's collections. The 2001 peak corresponds to the Sydney Harbour Biosecurity Survey conducted for the Sydney Ports Authority by the Australian Museum (Australian Museum Business Services 2002).

Reviewing the distribution of records (Figure 7) it appears that there are significant areas of the harbour that have not been sampled. The Eastern and Northern regions have the greatest number of specimen records, and, mirroring this, the greatest number of species (1201 and 788 respectively (Figure 8)). Within these zones the most extensively sampled regions are at depths of less than 10 m. This can be seen by comparing Figures 1 and 7. Some areas appear to be the targets of intensive collections of molluscs, with 301–1000 records indicated for the following locations: Middle Harbour, Manly Cove, Middle Head, Watsons Bay, Shark Bay, Berry's Bay, and off Mosman (Bradley's Head, Taylor's Bay and Chowder Bay).

The Central and Western regions have been poorly collected for molluscs and this may be due in part to difficulties obtaining access to these areas. In addition, only in recent years have Australian Museum malacologists focussed on freshwater and brackish water molluscs, which are likely to occur in the westernmost arms of the catchment area of the harbour. The paucity of specimens from these areas is reflected in the number of records (Figure 7) as well as the number of species, with 234 species recorded from the Central region and only 31 in the Western zone.

It is likely, however, that rather than reflecting collecting effort, this pattern of decreasing diversity from east to west may be real. It may relate to the decreasing diversity of habitat types and depths and fluctuating salinity, which decrease and increase respectively from east to west (see Figure 1 and Beck and Birch 2012a, b).

Figure 11 indicates that for all four regions, the number of molluscs recorded over the last 150 years is approaching a plateau. This could indicate that our knowledge of molluscan diversity in Sydney Harbour is approaching completion, or it could reflect the diminution of taxonomic research in recent years (Figure 9). Unfortunately, the decline in taxonomic research is currently a worldwide problem that urgently needs to be addressed.

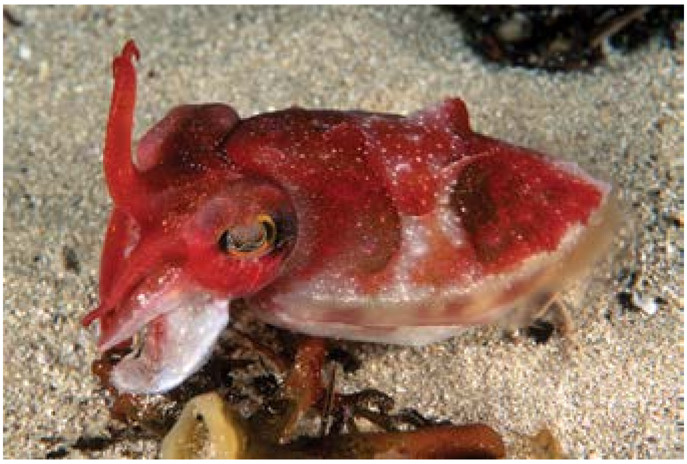
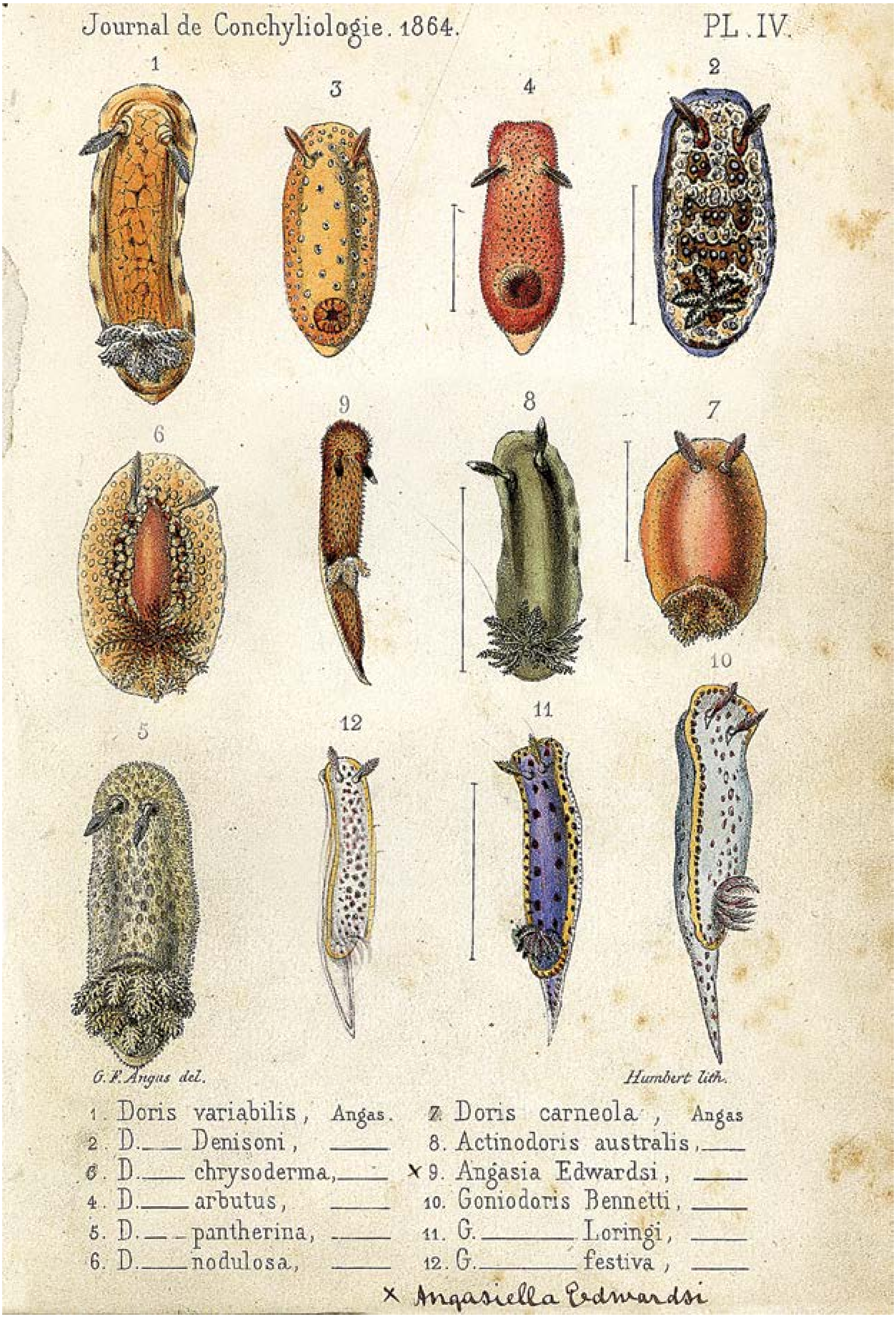


Figure 27. *Sepia mestus*, known as the 'Red Cuttle', or 'Reaper Cuttlefish' is commonly found in shallow rocky reefs and is often seen by divers, sheltered under overhanging rock ledges. Photo, Becca Saunders.



Journal de Conchyliologie. 1864. PL. IV.

G. F. Angas del. Humbert lith.

1. Doris variabilis, Angas.
2. D.___ Denisoni, ___
3. D.___ chrysoderma, ___
4. D.___ arbutus, ___
5. D.___ pantherina, ___
6. D.___ nodulosa, ___
7. Doris carneola, Angas
8. Actinodoris australis, ___
× 9. Angasia Edwardsi, ___
10. Goniodoris Bennetti, ___
11. G.___ Loringi, ___
12. G.___ festiva, ___

× Angasiella Edwardsi

Figure 28. George French Angas's hand-painted figures of Port Jackson nudibranchs, from Angas and Crosse (1864).

Fishes

Early white settlers learned a little about the fishes of Sydney Harbour as a result of their need for food. Scientific knowledge of the ichthyofauna, however, developed slowly. In his *Voyage to Botany Bay* (1789) Arthur Phillip described a Port Jackson Shark, *Heterodontus portusjacksoni,* and a Wobbegong, *Orectolobus maculatus*, from the harbour. Since those humble beginnings, our knowledge of the fauna of Sydney Harbour has grown spasmodically (Figure 11). Castelnau's Essay on the Ichthyology of Port Jackson (1879) compared the fish faunas of Sydney Harbour and Victoria. More recently, Henry (1984), in his paper on commercial and recreational fishing in Sydney Harbour, stated that "The Australian Museum has recorded 581 fish species from the Sydney estuary" but did not provide a species list. The remarkably rich fish fauna is comprised of warm temperate water species and tropical species carried south in the warm East Australian Current. As of December 2011, 586 species of fishes from 391 genera and 160 families were known to occur in Sydney Harbour (Figure 6, Appendix, current figures available at http://www.australianmuseum.net.au/Fishes-of-Sydney-Harbour). This can be put into perspective by comparing with the 540 species known to occur in the entire Mediterranean Sea (Helfman *et al.* 2009).

The Australian Museum's earliest dated records of Sydney Harbour fishes begin in 1878, with the collection of 15 specimens (11 species), followed by 29 specimens (16 species) in 1879. In the 133 years since, four main 'spikes' in collecting activity have occurred (Figure 9). The first was between 1880 and 1890, during the tenure of Edward Pierson Ramsay (1874–1894) and James Douglas Ogilby (1884–1890). A smaller spike in collecting effort occurred in 1908, during the tenure of Allan Riverstone McCulloch (1906–1925). Over the next 60 years, minor but consistent collecting was undertaken, largely during the 42 year tenure of Gilbert Percy Whitley (1922–1964). The 1970s saw a decade of intensive collecting coinciding with the employment of John Paxton (1969–1998) and Doug Hoese (1971–2004). See Saunders (2012) and http://www.australianmuseum.net.au/Fish-Section-Staff for more information on the early Australian Museum ichthyologists.

The number of fish species known from the harbour has increased over time, but not steadily (Figure 11). Not surprisingly, dramatic increases in species numbers occurred during the two decades of intense collecting discussed above (1880–1890 and 1970–1980). During the first period, the number of species known from the harbour rose from 'a handful' (those recorded in early works and not retained at the Australian Museum) to over 200 that were incorporated into the Australian Museum collection. The number of known species climbed dramatically in the decade between 1970 and 1980 largely due to the efforts of Paxton who ran a seven year trawling program in the harbour, along with seining, rotenone sampling and visits to the fish market (Paxton and Collett 1975, Figure 2). The most recent spate of intensive sampling occurred around 2001 and is largely attributable to work done by the Australian Museum for the Sydney Harbour Biosecurity Survey conducted for the Sydney Ports Authority (Australian Museum Business Services 2002). During this survey, fishes were collected at 19 sites, from Chowder Bay in the Eastern region to Blackwattle Bay in the Central region, with divers on scuba using rotenone to intensively sample the fish fauna (Figure 10). Some iconic Sydney Harbour species are shown in Figures 29-33.

During the 'wonder decade' (1970–1980), about 150 species of fishes were added to the species count, with increases in species numbers in all four regions (Figure 11). The largest increases were in the Eastern and Northern regions respectively. During this time, the number of species known from the Northern region overtook that of the Central region.

It is important to note that the two periods of greatest increase in species numbers correspond with times when Australian Museum staff members were actively pursuing programs of both research and collection in the harbour. The relatively small increase in species numbers, despite the large collection effort in 2001 may partially be accounted for by the absence of an Australian Museum ichthyologist actively working on the fauna of the harbour. Over the last two decades, the number of ichthyological

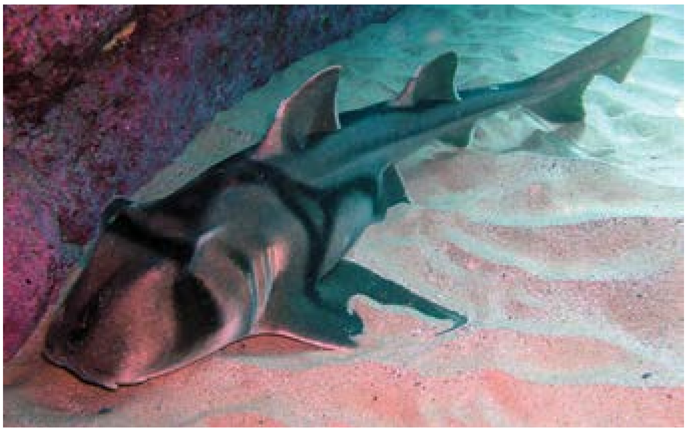


Figure 29. The Port Jackson Shark, *Heterodontus portusjacksoni*, occurs in the eastern zone. It is a distinctive blunt-headed species that has a spine in front of both dorsal fins. The 'harness-like' colour pattern distinguishes it from the similar-looking Crested Horn shark, *Heterodontus galeatus*. Photo, Sascha Schulz.

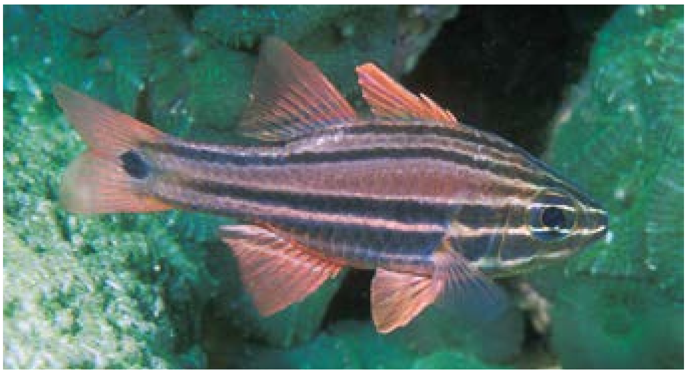


Figure 30. The Sydney Cardinalfish, *Apogon limenus*, can be recognised by the wide gap between the second and third stripes, and the short stripe running posteriorly from the top of the eye. It is a common Sydney Harbour species that is usually observed in small aggregations. The species name *limenus* comes from the Greek word *limen*, meaning 'harbour' or 'refuge'. Photo, Ian Shaw.

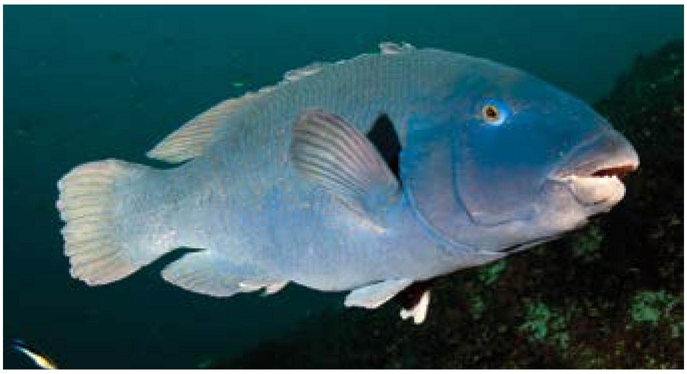


Figure 31. Despite its name, the Eastern Blue Groper, *Achoerodus viridis,* is not a grouper, but a wrasse. The species was made the fish emblem for New South Wales in 1996. The large, blue males commonly approach divers. Photo, Dave Harasti.

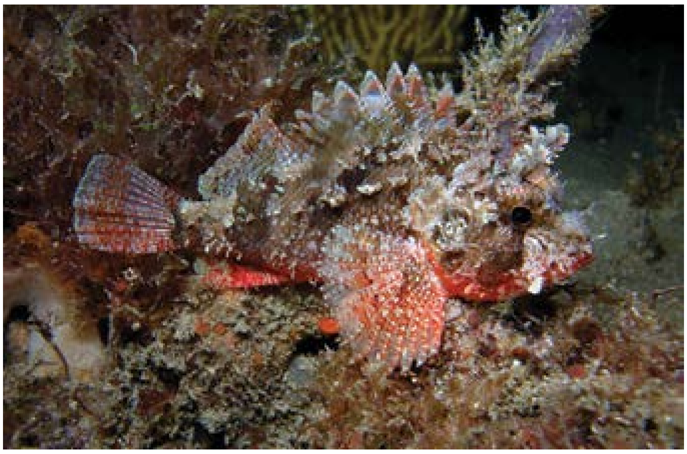


Figure 32. Eastern Red Scorpionfish, *Scorpaena jacksoniensis,* are commonly seen on rocky reefs of the outer harbour. Individuals spend much of the day motionless on the bottom. For many years, this species was incorrectly called *Scorpaena cardinalis.* The correct name, *S. jacksoniensis* (see Motomura *et al*. 2011), refers to the type locality of Port Jackson (Sydney Harbour). It is also known locally as the 'Red Rockcod'. Photo, Dave Harasti.

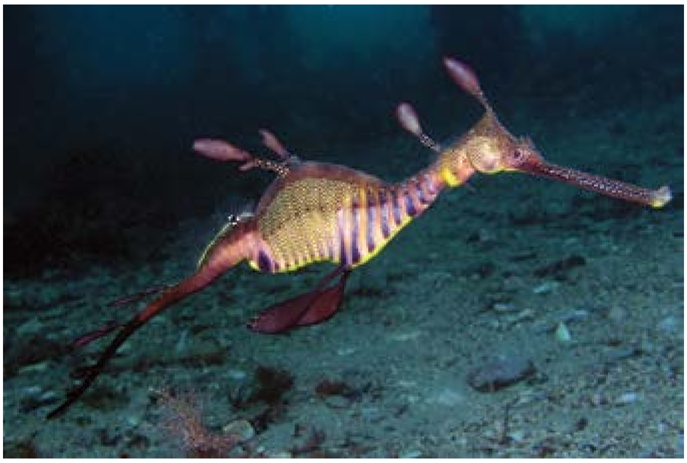


Figure 33. The distinctive Common Seadragon, *Phyllopteryx taeniolatus,* is usually seen in association with kelp-covered reefs in the outer harbour. The species is often referred to as the Weedy Seadragon, which can cause confusion with the more southerly-distributed Leafy Seadragon, *Phycodurus eques*. Photo, Sascha Schulz.

research staff at the Australian Museum has decreased from three positions (Paxton, Hoese, Leis) to one half-time position (Leis). It is unlikely that the current species count would remain static if another program of harbour-centric research was undertaken.

Despite the decline in the Australian Museum's ichthyological research capacity, the number of species known from the harbour continues to increase, often due to the work of international ichthyologists. In 2004, Australian Museum Research Associate, Hiroyuki Motomura (2004), described the Sydney Scorpionfish, *Scorpaenopsis inspiratus* (http://www.australianmuseum.net.au/Sydney-Scorpionfish-Scorpaenopsis-insperatus). Nearly a decade later, the holotype and paratype, both collected by staff of the Australian Museum at Clifton Gardens in the Eastern region, are the only specimens of the species that have been collected. The live colouration of the species is unknown. Another new species known from the harbour, an anglerfish (http://www.australianmuseum.net.au/Undescribed-Anglerfish/), is currently being described by Rachel Arnold from the University of Washington.

Many species of fishes collected from coastal areas of Sydney have not been recorded from the harbour. The outer harbour is essentially a marine environment that contains suitable habitats for many of these coastal species. Almost certainly, unrecorded coastal species occur in the Eastern region.

Many species records are based on vagrant fishes such as tropical species (e.g. butterflyfishes, cardinalfishes, damselfishes, surgeonfishes, gobies) and pelagics (e.g. billfishes, lamnid sharks, driftfishes, trevallies). Their occurrence may be based on a single record. The current paper includes 175 species (29.9%) for which the collection contains only a single specimen. It is unclear how many species are resident, how many are vagrants and how many are simply rare. An analysis of the resident fish fauna of Sydney Harbour is beyond the scope of this paper (Booth 2010).

Figure 7 clearly shows large areas of the harbour (primarily in the Northern and Western regions) in which there has been no fish collecting undertaken by the Australian Museum. If these areas are targeted, current knowledge of fish distributions will undoubtedly be improved. This point is illustrated by a single day of collecting from near Roseville Bridge, Middle Harbour (Figure 1) in May 2012 during which specimens of Blackmargin Dartfish, *Parioglossus marginalis* and Pacific Blue Eye, *Pseudomugil signifier* were collected. These were new records for the harbour and for Middle Harbour respectively. The collection of a White's Seahorse, *Hippocampus whitei* at the same locality was a notable range extension (~15 km upstream) within Middle Harbour.

A larval fish sampling program would enhance our understanding of the fish fauna of Sydney Harbour. Larvae commonly have very different habitat requirements, behaviours and food requirements to adults. Little collecting of larval fishes has been undertaken. Specimens exist from the work of Leis and colleagues who made a number of collections at Collins Flat and Quarantine Beaches (North Head) and Lockett who collected larvae from Homebush Bay and the Lane Cove River.

Discussion

This first attempt in more than a century to collate the fauna of selected groups from Sydney Harbour has revealed an amazing diversity with almost 20,000 records, 632 families, 1830 genera and 3023 species recorded. Certainly this is an underestimate of the diversity of the harbour as groups such as sponges, ascidians, bryozoans and many of the smaller groups, have not been included. As shown in Figure 8, the Eastern and Central areas have the greatest number of records for all groups excluding polychaetes. The Western area has the least. This may be due to inadequate sampling, but it is also the area with the lowest diversity of habitats and, periodically, the lowest salinities, especially after heavy rain. This would severely impact some taxa; for example, echinoderms are almost completely marine and polychaetes largely so and would not survive under these conditions. Other contributing factors may be that, historically at least, water quality was poor in this region with limited tidal flushing, and access to sampling sites is often difficult. Further east, good tidal flushing has reduced the impact of land-based pollution from harbour foreshore industries (Davis and Birch 2010, 2011). In recent decades most foreshore industries in the Western region have now been relocated with the valuable land sold off for residential development. Similar comments are also true for the Northern region (except this region has never had many shore-based industries).

The most speciose area is the Eastern region, which has more habitat types (seagrasses (Figure 34), rocky shores (Figure 35), soft substrates, pelagic habitat, is essentially an extension of the coastal marine environment. This region has been the target of the most intensive collecting effort using many techniques for all of the target groups. Interestingly, while the number of species known from the Eastern (marine) region continues to grow, the numbers from the other regions have only increased slightly over time, although for all groups the 2001 survey for Sydney Ports (Australian Museum Business Services 2002) increased the number of known species.

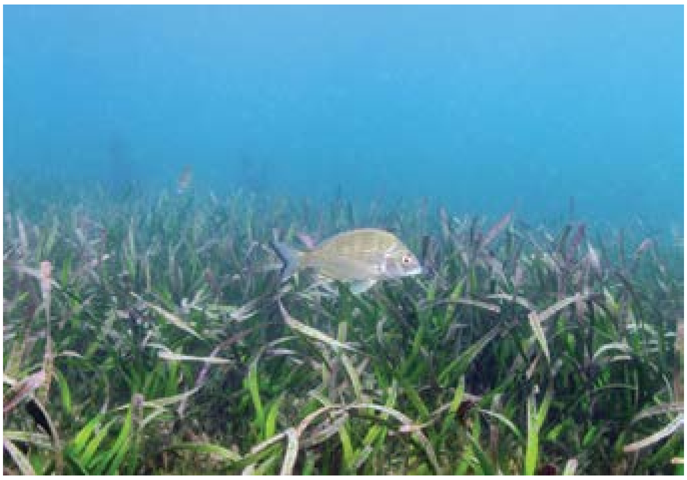


Figure 34. *Posidonia australis* seagrass beds toward the entrance to the harbour with Yellowfin Bream, *Acanthopagrus australis* swimming above. Photo, Dave Harasti.

With over 3000 marine species, Sydney Harbour is truly a biodiverse waterway for a combination of reasons, including a tremendous diversity of habitats, varying in types of sediment, depth, and vegetation. Seagrass beds (Figure 34) and algal beds (Figure 36) are widespread especially in the Eastern region although these deep water algal beds have not been accurately mapped. West *et al.* (2004) have undertaken a survey of the harbour based on aerial surveys of the distribution of seagrasses, mangroves (Figure 37), kelp and seagrass beds. They show that seagrass beds

Figure 35. Rocky shores opposite North Head. Photo, Penny Berents, Australian Museum.

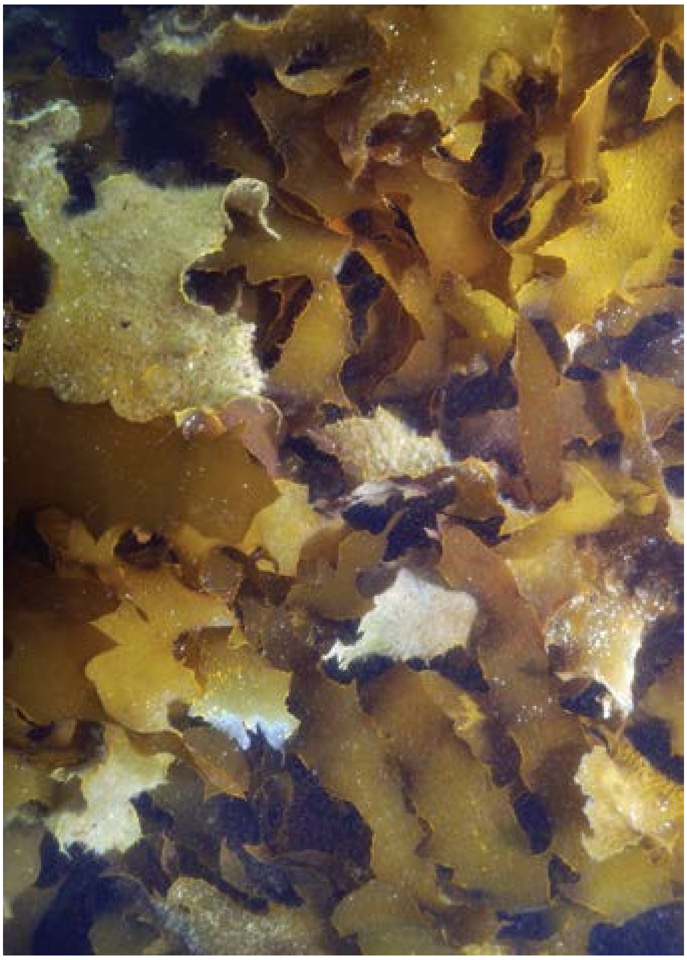


Figure 36. The kelp *Ecklonia* from around Clarke Island at 2.5 m. Photo, Graham Edgar.

have changed substantially over the last 20 years and some subsequent maps have been produced (Creese *et al.* 2009). The same is true for mangrove communities further upstream (McLoughlin 1987, 2000). Adam (1996) documented the distribution of saltmarshes around Homebush Bay and refers to the history of saltmarsh reclamation and modification in this region (Clarke and Benson 1988; Kachka 1992) (Figures 38-40). Inside Sydney Heads are extensive sponge gardens that are home to diverse communities of invertebrates and fishes (Hutchings pers. observ. Figure 41). Also inside the heads are extensive sea-urchin barrens (Figure 43). Many intertidal habitats have been substantially changed since European settlement with reclamation for buildings, seawalls, port and marina facilities, replacing

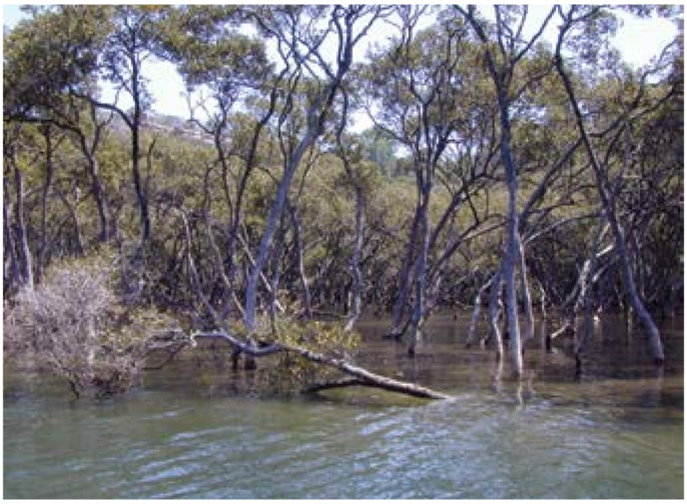


Figure 37. Mangroves *Avicennia marina* along Middle Harbour. Photo, Penny Berents, Australian Museum.

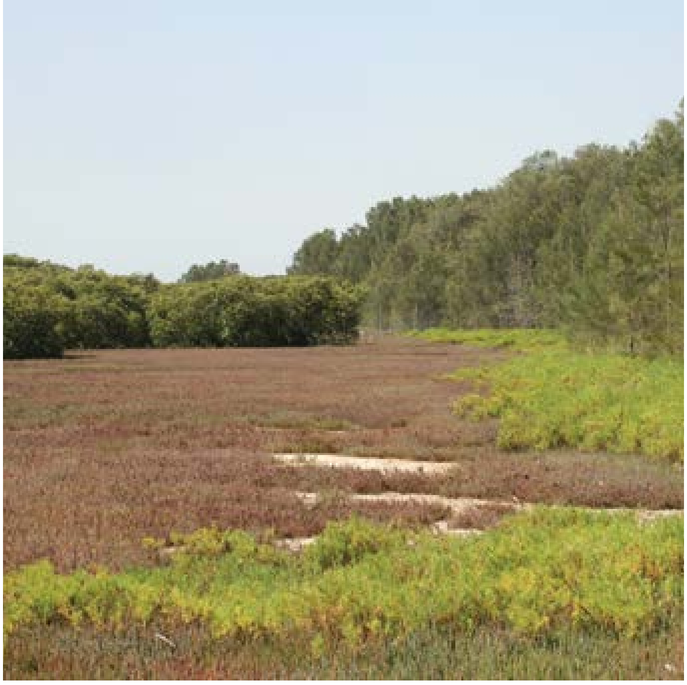
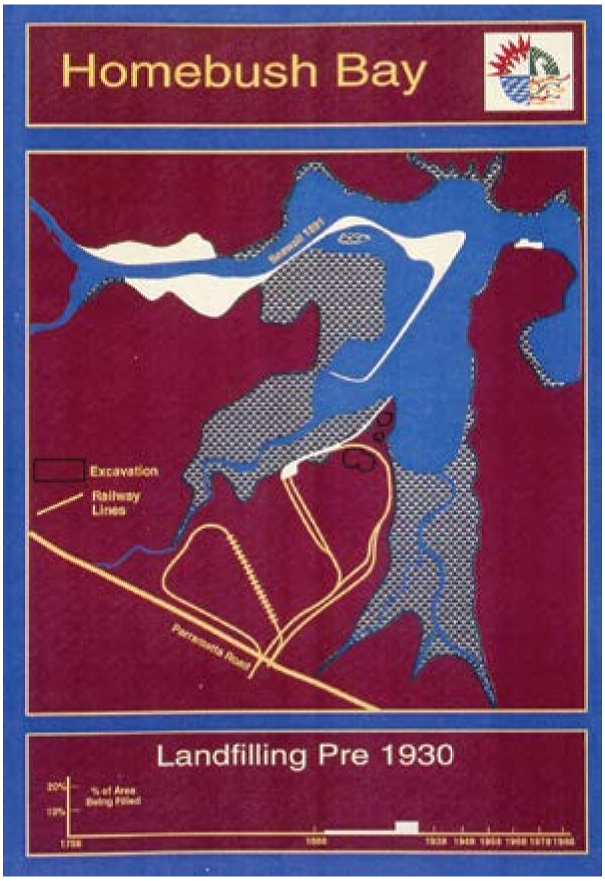
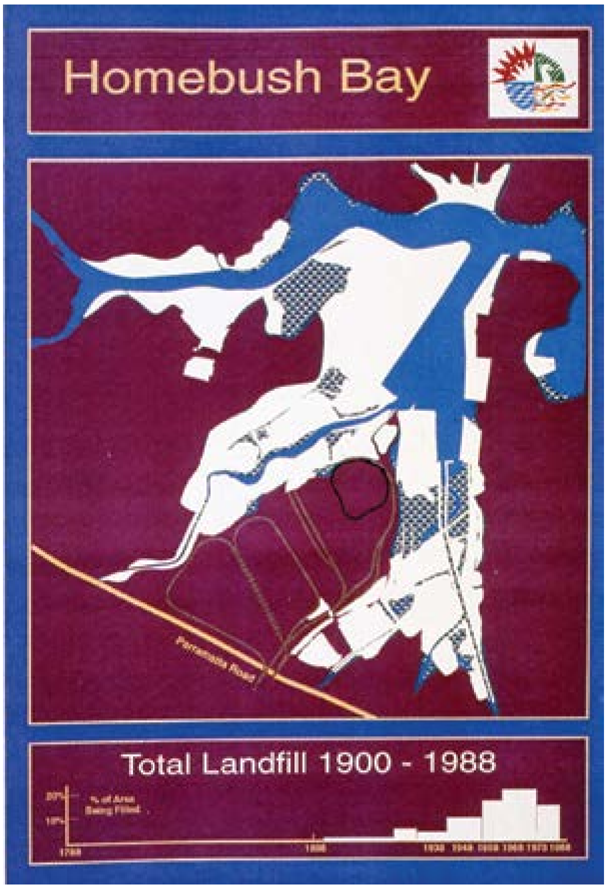


Figure 38. Saltmarsh at Homebush Bay with *Casuarina glauca* to the right, *Suaeda australis* (bright green) and *Sarcocornia quinqueflora*. The salt marsh forms a zone between the *Casuarina* and mangroves (*Avicennia marina* in the top left). Photo, Paul Adam.



Homebush Bay
Excavation
Railway Lines
Parramatta Road
Landfilling Pre 1930
20%
10%
% of Area Being Filled

Figure 39. Homebush Bay prior to 1930. Prepared for Homebush Bay Corporation



Homebush Bay
Parramatta Road
Total Landfill 1900 - 1988
20%
10%
% of Area Being Filled

Figure 40. Homebush Bay reclamation from 1900–1988, Prepared for Homebush Bay Corporation

complex substrates and habitat with large areas of uniform, hard surfaces (Glasby and Connell, 1999) (Figure 42). Mangrove coverage has also changed over time (McLoughlin 2000 and refs therein; West *et al.* 2004; Creese *et al.* 2009), but significant stands are still present in the Northern and Western regions (Melville *et al.* 2005). Sydney Harbour, is a natural harbour and has experienced relatively little dredging except around in areas such as Circular Quay and Darling Harbour and further upstream around Homebush Bay associated with salt ponds and later industry (Clarke and Benson 1988; Fox and Associates 1986).

The largest number of records from the harbour are of molluscs. But, does this pattern in Sydney Harbour reflect collection effort (as measured by the number of records) and research focus, or are molluscs really the most diverse marine group in Sydney Harbour? Do historical factors need to be considered?

The Australian Museum mollusc collection differs in some important respects from the other collections covered in this report. Because of its vast size, only about one-third of the entire mollusc collection is presently databased, so the statistics regarding the mollusc records from Sydney Harbour must be considered preliminary. Of these records, however, a higher proportion of local species (i.e., from the Sydney area and environs) rather than distant or non-Australian material is databased. Another significant difference is that, unlike the other groups treated here, molluscs are a major target group for amateur collectors, who have been the source of many specimens in the Australian Museum collection, especially in the early years (Hope Black 1998). These collections have come to the Museum periodically, either purchased or donated, often with only approximate or no information on the dates of collection and sometimes dubious locality information and identifications. Little emphasis was placed on accurate recording of data up to the mid 20th century. Because the early records are largely comprised of information from donated collections, they tend to be less reliable than data obtained from more recent collections.

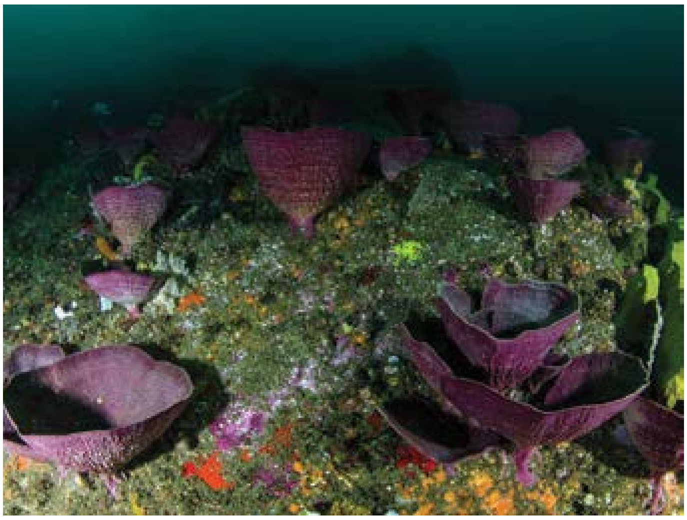


Figure 41. Sponge gardens inside North Head at the Blocks dive site at 18–20 m. The reddish vase sponge resembles *Phyllospongia* with a cyanobacterial symbiont. Photo, Howard Womersley | divebuzz.com.

Another peculiar complication for the malacology collection is determining the status of specimens collected as empty shells. If empty shells were collected from a locality at which the same species is currently living, it is reasonable to assume that the shells are recent. In the absence of living individuals, however, an assessment is made on the state of the shell and its microhabitat to determine whether the shell is recent. A fresh-looking

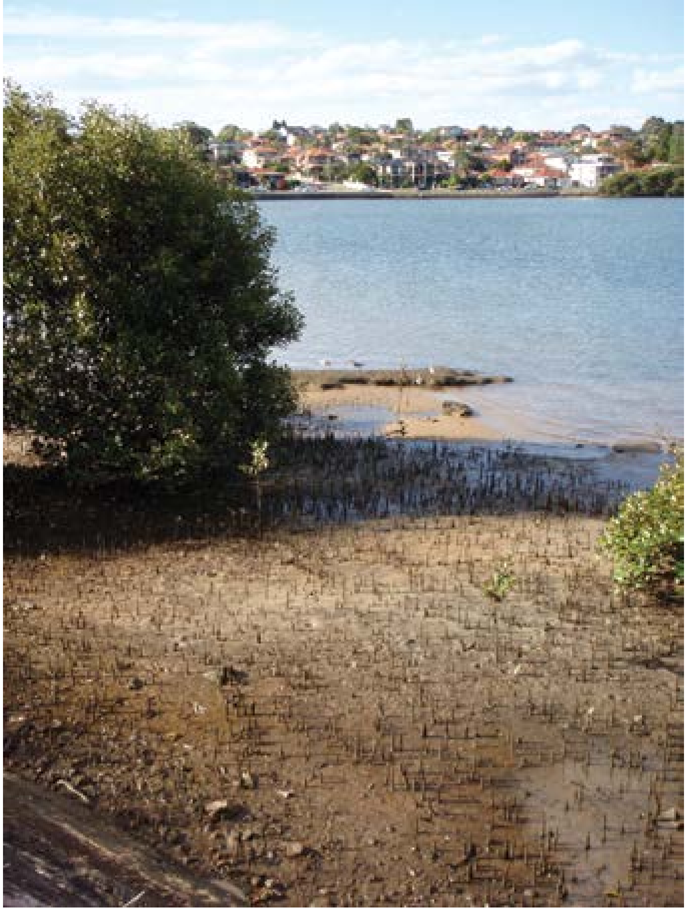


Figure 42. Mud flats at Hen and Chicken Bay with Bar-tailed Godwits feeding, and illustrating the reclamation on the opposite side with concrete walls replacing saltmarsh. Photo, Pat Hutchings.

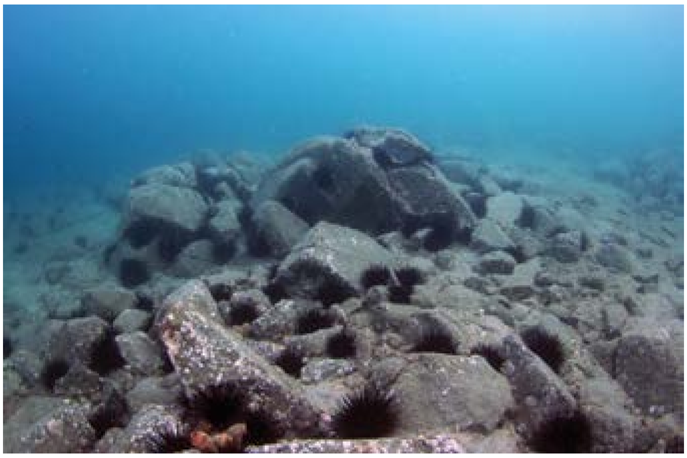


Figure 43. Urchin Barrens occur all around North and South Head, Quarantine Bay and at several locations in the harbour such as the reef around Chowder Bay and Middle Head, at depths of 2 m to 20 metres. Photo, Dave Harasti.

shiny shell is usually modern, but some subfossils can have a remarkably 'fresh' appearance. If a shell came from deep dredging, from well below the substrate surface, it could be a subfossil, and then geological evidence is required to estimate its age. In ascertaining species distributions, fossil shells add a significant time dimension that needs to be considered. Mollusc species numbers may be overinflated by the inclusion of fossil molluscs — the listed species will probably include some that no longer occur in the harbour but may have occurred there at some time in the geological past.

Also, for all the groups considered in this paper, additional species may be present in other collection databases but checking these was beyond the scope of this paper. We know for example that a paratype of *Oxycheilinus nigromarginatus,* the Blackmargin Maori Wrasse (http://www.australianmuseum.net.au/Blackmargin-Maori-Wrasse-Oxycheilinus-nigromarginatus/), from Camp Cove (Eastern region) is held in the collection at Museum Victoria (A 11834). No specimens of this species from the harbour are currently in the Australian Museum collection.

For all the invertebrate groups, additional collecting, especially in deeper parts of the harbour and in soft sediments, will undoubtedly result in the discovery of additional species and records. An area which has been very poorly sampled is upstream from Spit Bridge which covers approximately 4.7 km^2, and represents 9.1% of the total harbour and while molluscs are reasonably well sampled in this area (~9.3% of all records), other groups are not (1.0% polychaetes, 1.7% fish, and 3.8% crustaceans, with virtually no echinoderms but this is to be expected) (Figure 7), certainly targeted surveys in this region would no doubt increase the known diversity of the harbour.

In addition, among the invertebrate groups there are collections of unstudied material that remain to be identified and databased; these will no doubt include additional records and new species. Also, as seen in Appendix, some records are yet to be identified to species level, and this in part reflects taxonomic limitations.

Considering that Australia's largest city surrounds the harbour, it is remarkable that we have such a diverse fauna. However, we have not yet determined how many records of species have not been found in the past 10–20 years. Even if we did so, it would be difficult to know whether they have actually been lost from the harbour or whether their habitats have simply not been sampled recently. In no small part, the diversity found in the harbour is due to its geomorphology and the wide deep entrance that greatly facilitates water exchange and recruitment from nearby areas. Without this water exchange, salinity would be much less stable and water quality would have been seriously compromised, especially in the late 1800s early 1900s when sewage remained untreated and a whaling station operated at Mosman.

Comparisons with neighbouring estuarine areas are instructive. To date, the total number of polychaete, crustacean and mollusc species recorded from Sydney Harbour stands at 2319, although these numbers are certainly a significant underestimate of true species richness since many areas of the harbour are poorly sampled. This compares with 1636, 1335 and 981 species known from the nearby (<30 km) estuaries Botany Bay, the Hawkesbury River and Port Hacking, respectively, based on Australian Museum collection records (Hutchings and Murray 1984; Wilson 1998; Fraser *et al.* 2006). Each of these areas is smaller and has far fewer types of habitat than Sydney Harbour, highlighting the environmental significance of the harbour.

Sydney Harbour is clearly a highly diverse environment in which much remains to be discovered. The present study highlights the remarkable species richness of Sydney Harbour.

Acknowledgements

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APPENDIX I

A complete list of all polychaetes, crustaceans, echinoderms, molluscs and fishes recorded from Sydney Harbour compiled from records in the Australian Museum database. Non-indigenous species indicated (*), cryptogenic (**). Non-indigenous and cryptogenic crustaceans based on Ahyong & Wilkens (2011).

Polychaetes

Family	Scientifc name	# Records	Regions	Years
Ampharetidae	*Isolda pulchella*	1	E	1971
Ampharetidae	*Pseudoamphicteis papillosa*	1	E	1929
Ampharetidae	*Ampharetidae sp.*	2	EC	2001
Amphinomidae	*Amphinome rostrata*	1	E	none
Amphinomidae	*Eurythoe complanata*	4	E	1923-1972
Amphinomidae	*Amphinomidae sp.*	1	E	2006
Aphroditidae	*Aphrodita australis*	7	EN	1929-1979
Aphroditidae	*Aphrogenia margaritacea*	1	E	1989
Aphroditidae	*Aphroditidae sp.*	1	E	1922
Arenicolidae	*Arenicola loveni*	1	N	1918
Capitellidae	*Barantolla lepte*	11	CW	1985-2001
Capitellidae	*Capitella capitata*	2	CW	1986-1994
Capitellidae	*Capitella sp.*	4	W	1985-1992
Capitellidae	*Heteromastus sp.*	2	EC	2001
Capitellidae	*Mediomastus australiensis*	5	EC	2001
Capitellidae	*Notomastus chrysosetus*	2	CW	1992-2001
Capitellidae	*Notomastus estuarius*	1	W	1992
Capitellidae	*Capitellidae sp.*	4	EC	2001
Chaetopteridae	*Chaetopterus sp.*	2	E	2001
Chaetopteridae	*Chaetopterus variopedatus*	2	E	1976-1989
Chaetopteridae	*Phyllochaetopterus socialis*	2	C	2001
Chaetopteridae	*Chaetopteridae sp.*	4	EC	1973-2001
Chaetopteridae	*Spiochaetopterus sp.*	8	EC	2001-2011
Chrysopetalidae	*Chrysopetalidae sp.*	3	C	2001-2009
Cirratulidae	*Chaetozone setosa*	1	C	1986
Cirratulidae	*Cirriformia capensis*	11	ECN	1946-1986
Cirratulidae	*Cirriformia chrysoderma*	1	N	1968
Cirratulidae	*Cirriformia filigera*	2	EW	1984-1994
Cirratulidae	*Cirriformia sp.*	1	C	2003
Cirratulidae	*Cirriformia tentaculata*	2	EN	none
Cirratulidae	*Cirratulidae sp.*	4	ECN	2001-2006
Cirratulidae	*Tharyx retusiseta*	2	C	1986
Cossuridae	*Cossura sp.*	3	EW	1992-2001
Dorvilleidae	*Dorvillea australiensis*	2	E	1959-1968
Dorvilleidae	*Ophryotrocha labronica*	1	E	1994
Dorvilleidae	*Protodorvillea sp.*	1	E	1972
Dorvilleidae	*Schistomeringos filiforma*	1	E	1988
Dorvilleidae	*Schistomeringos loveni*	10	ECNW	1971-1998
Dorvilleidae	*Dorvilleidae sp.*	2	EC	1972-2001
Eunicidae	*Eunice antennata*	1	E	none
Eunicidae	*Eunice aphroditois*	28	ECN	1885-1968
Eunicidae	*Eunice laticeps*	10	ECN	1908-1968
Eunicidae	*Eunice sp.*	7	E	1910-2005
Eunicidae	*Eunice tubifex*	1	E	1948
Eunicidae	*Lysidice sp.*	10	EN	1910-2005
Eunicidae	*Marphysa sp. 1*	2	W	1989-1992
Eunicidae	*Marphysa sp. 2*	8	EC	1910-1963
Eunicidae	*Nematonereis sp.*	3	EC	2001
Eunicidae	*Palola siciliensis*	2	E	1972
Eunicidae	*Eunicidae sp.*	4	EN	2000-2006
Euphrosinidae	*Euphrosine longesetosa*	2	E	1972
Euphrosinidae	*Euphrosine sp.*	1	E	2005
Flabelligeridae	*Brada sp.*	1	E	none
Flabelligeridae	*Flabelligera affinis*	1	E	1968
Flabelligeridae	*Pherusa cinctus*	2	E	1979
Flabelligeridae	*Flabelligeridae sp.*	3	EC	1989-2001
Glyceridae	*Glyceridae sp.*	6	EC	1929-2001
Goniadidae	*Goniada antipoda*	2	EC	2001
Hesionidae	*Microphthalmus sp.*	4	W	1992
Hesionidae	*Ophiodromus angustifrons*	4	EW	1968-1989
Hesionidae	*Ophiodromus microantennata*	2	C	1986
Hesionidae	*Hesionidae sp.*	4	EC	1929-2001
Lumbrineridae	*Augeneria verdis*	9	EC	2001
Lumbrineridae	*Lumbrineris latreilli*	5	EW	1974-1994

Family	Scientifc name	# Records	Regions	Years
Lumbrineridae	*Lumbrineris sp.*	5	E	1910-2005
Lumbrineridae	*Lumbrineridae sp.*	3	EC	2000-2005
Maldanidae	*Maldane sp.*	2	E	2005
Maldanidae	*Micromaldane nutricula*	3	E	1988
Maldanidae	*Praxillella sp.*	1	E	none
Maldanidae	*Maldanidae sp.*	1	C	2001
Nephtyidae	*Micronephthys maryae*	1	E	2001
Nephtyidae	*Micronephthys sp.*	5	EC	2001
Nephtyidae	*Micronephthys sphaerocirrata*	1	C	2001
Nephtyidae	*Nephtys australiensis*	13	CNW	1953-2001
Nephtyidae	*Nephtys inornata*	1	E	2001
Nereididae	*Alitta succinea*	2	W	1972
Nereididae	*Australonereis ehlersi*	9	ECNW	1909-1994
Nereididae	*Ceratonereis aequisetis*	13	CW	1985-1994
Nereididae	*Ceratonereis lapinigensis*	1	E	1973
Nereididae	*Ceratonereis sp.*	5	E	1972-1973
Nereididae	*Leonnates sp.*	5	C	2001
Nereididae	*Neanthes biseriata*	1	N	1972
Nereididae	*Neanthes cricognatha*	12	ECN	1971-2001
Nereididae	*Neanthes kerguelensis*	8	EC	2001
Nereididae	*Neanthes sp.*	1	C	1999
Nereididae	*Neanthes vaalii*	8	ECN	1910-1998
Nereididae	*Nereis cockburnensis*	2	E	1962-1968
Nereididae	*Nereis maxillodentata*	17	ECN	1968-2005
Nereididae	*Nereis sp.*	12	E	1910-1973
Nereididae	*Perinereis akuna*	6	ENW	1919-1989
Nereididae	*Perinereis amblyodonta*	10	EN	1908-1969
Nereididae	*Perinereis barbara*	7	EN	1908-1972
Nereididae	*Perinereis calmani*	5	E	1908-1972
Nereididae	*Platynereis antipoda*	1	N	1971
Nereididae	*Platynereis australis*	3	E	1962
Nereididae	*Platynereis bicanaliculata*	6	EC	1910-2001
Nereididae	*Platynereis dumerilii*	4	ECN	1968-2001
Nereididae	*Pseudonereis anomala*	1	E	1968
Nereididae	*Nereididae sp.*	12	ECN	1963-2005
Oenonidae	*Arabella sp.*	1	E	1910
Oenonidae	*Halla sp.*	2	EC	1892
Oenonidae	*Oenone sp.*	1	E	none
Oenonidae	*Oenonidae sp.*	2	C	2001
Onuphidae	*Australonuphis parateres*	2	E	none
Onuphidae	*Australonuphis teres*	1	E	none
Onuphidae	*Diopatra aciculata*	3	EN	1963-1977
Onuphidae	*Diopatra dentata*	9	EN	1971-1980
Onuphidae	*Diopatra sp.*	1	E	none
Onuphidae	*Kinbergonuphis sp.*	1	E	1972
Onuphidae	*Onuphidae sp.*	3	EC	1972-2001
Opheliidae	*Armandia intermedia*	4	EW	1976-1994
Opheliidae	*Polyophthalmus pictus*	1	C	1998
Opheliidae	*Opheliidae sp.*	2	EC	1910-2001
Orbiniidae	*Leitoscoloplos bilobatus*	2	E	1972
Orbiniidae	*Leitoscoloplos normalis*	1	W	1989
Orbiniidae	*Naineris australis*	1	C	1986
Orbiniidae	*Scoloplos cylindrifer*	3	EN	1909-1968
Orbiniidae	*Scoloplos novaehollandiae*	3	E	1908
Orbiniidae	*Scoloplos simplex*	1	N	1980
Orbiniidae	*Orbiniidae sp.*	1	C	2001
Oweniidae	*Galathowenia quelis*	1	C	2001
Paraonidae	*Paraonidae sp.*	1	E	2001
Pectinariidae	*Pectinaria antipoda*	1	E	none
Pectinariidae	*Pectinaria dodeka*	2	E	1925-1928
Pectinariidae	*Pectinariidae sp.*	2	C	2001
Phyllodocidae	*Eulalia sp.*	3	EN	1958-1972
Phyllodocidae	*Nereiphylla sp.*	1	E	1961
Phyllodocidae	*Phyllodoce sp.*	2	E	1972-1976
Phyllodocidae	*Phyllodocidae sp.*	5	ECN	1910-2006
Pilargidae	*Sigambra sp.*	1	C	2001
Pilargidae	*Pilargidae sp.*	12	EC	2001
Polynoidae	*Antinoe sp.*	1	E	1910
Polynoidae	*Augenerilepidonotus dictyolepis*	2	E	1989
Polynoidae	*Harmothoe ascidiicola*	18	ECN	1908-1972

Family	Scientifc name	# Records	Regions	Years
Polynoidae	*Harmothoe charlottae*	1	N	1970
Polynoidae	*Harmothoe praeclara*	5	EN	1908-1972
Polynoidae	*Harmothoe sp.*	7	ECW	1910-1992
Polynoidae	*Harmothoe waahli*	5	E	1908-1979
Polynoidae	*Lepidonotus jacksoni*	1	E	none
Polynoidae	*Lepidonotus melanogrammus*	3	EC	1982-1998
Polynoidae	*Lepidonotus oculatus*	1	E	none
Polynoidae	*Lepidonotus sp.*	1	E	1910
Polynoidae	*Malmgreniella phillipensis*	1	E	1973
Polynoidae	*Paralepidonotus ampulliferus*	1	W	1994
Polynoidae	*Polynoe sp.*	4	EC	1894
Polynoidae	*Polynoidae sp.*	36	ECN	1908-2002
Sabellariidae	*Idanthyrsus australiensis*	3	E	1972-1983
Sabellariidae	*Sabellariidae sp.*	1	C	2001
Sabellidae	*Amphicorina bicoloris*	3	E	1988
Sabellidae	*Amphicorina dentata*	3	E	1988
Sabellidae	*Amphicorina sp.*	1	E	2001
Sabellidae	*Amphiglena sp.*	1	E	2001
Sabellidae	*Branchiomma sp.*	16	EC	2001-2009
Sabellidae	*Demonax sp.*	13	EC	1974-2001
Sabellidae	*Desdemona aniara*	4	CW	1992-1999
Sabellidae	*Desdemona sp.*	3	EC	1973-2001
Sabellidae	*Euchone limnicola*	16	ECW	1992-2001
Sabellidae	*Laonome triangularis*	1	C	1986
Sabellidae	*Notaulax sp.*	1	E	2005
Sabellidae	*Pseudopotamilla sp.*	15	EC	2001-2006
Sabellidae	*Sabellastarte australiensis*	11	E	1922-2005
Sabellidae	*Sabellastarte sp.*	1	E	1972
Sabellidae	*Sabellidae sp.*	9	EC	1910-2003
Scalibregmatidae	*Asclerocheilus heterochaetus*	1	E	2001
Serpulidae	*Crucigera sp.*	1	E	2001
Serpulidae	*Ditrupa australis*	1	E	1950
Serpulidae	*Ficopomatus enigmaticus*	3	CW	1972-1998
Serpulidae	*Filograna sp.*	2	E	2005
Serpulidae	*Galeolaria gemineoa*	10	ECN	1946-2002
Serpulidae	*Galeolaria hystrix*	1	E	none
Serpulidae	*Galeolaria sp.*	1	E	1921
Serpulidae	*Hydroides brachyacanthus*	2	E	1972-1973
Serpulidae	*Hydroides diramphus*	9	EC	1988-2001
Serpulidae	*Hydroides elegans***	67	ECN	1910-2003
Serpulidae	*Hydroides ezoensis**	22	EC	1998-2001
Serpulidae	*Hydroides monroi*	1	E	1988
Serpulidae	*Janua formosa*	1	E	1967
Serpulidae	*Janua pseudocorrugata*	1	E	1967
Serpulidae	*Metavermilia acanthophora*	1	E	none
Serpulidae	*Neodexiospira brasiliensis*	2	C	1998
Serpulidae	*Neovermilia globula*	6	E	1910-1997
Serpulidae	*Protula palliata*	2	EC	none
Serpulidae	*Salmacina australis*	1	E	1972
Serpulidae	*Serpula hartmanae*	1	E	1989
Serpulidae	*Serpula jukesii*	3	E	1955-1989
Serpulidae	*Serpula sp.*	1	E	none
Serpulidae	*Simplaria pseudomilitaris*	1	E	1967
Serpulidae	*Serpulidae sp.*	3	EC	1910-2006
Serpulidae	*Spirobranchus corniculatus*	1	E	1996
Serpulidae	*Spirobranchus sp.*	1	E	1988
Serpulidae	*Spirobranchus taeniatus*	1	E	none
Serpulidae	*Spirobranchus tetraceros*	18	EC	1951-2001
Serpulidae	*Spirobranchus zibrowii*	1	E	1955
Sigalionidae	*Euthalenessa fimbriata*	1	E	none
Sigalionidae	*Sigalionidae sp.*	3	EC	1929
Sigalionidae	*Sthenelais pettiboneae*	1	C	2001
Sphaerodoridae	*Sphaerodoropsis sp.*	1	C	2009
Spionidae	*Boccardia chilensis*	6	CW	1971-2001
Spionidae	*Boccardia fleckera*	3	E	2001
Spionidae	*Carazziella victoriensis*	5	ECW	1985-2001
Spionidae	*Dipolydora flava*	2	EC	1971-2001
Spionidae	*Dipolydora giardi*	1	N	1968
Spionidae	*Dipolydora socialis*	7	ECN	1968-2001
Spionidae	*Dipolydora sp.*	10	EC	2001

Family	Scientifc name	# Records	Regions	Years
Spionidae	*Dispio glabrilamellata*	1	E	1971
Spionidae	*Microspio sp.*	1	W	1992
Spionidae	*Orthoprionospio cirriformia*	2	W	1992
Spionidae	*Polydora haswelli*	4	CN	1968-1972
Spionidae	*Polydora sp.*	7	EC	1972-2001
Spionidae	*Polydora woodwicki*	1	C	2001
Spionidae	*Prionospio kulin*	1	E	1972
Spionidae	*Prionospio multibranchiata*	1	E	1989
Spionidae	*Prionospio nirripa*	1	E	2001
Spionidae	*Prionospio sp.*	9	EC	1971-2001
Spionidae	*Prionospio tridentata*	8	EC	1976-2001
Spionidae	*Prionospio yuriel*	5	W	1985-1994
Spionidae	*Pseudopolydora paucibranchiata*	7	ECW	1972-2001
Spionidae	*Rhynchospio sp.*	1	E	1989
Spionidae	*Scolelepis sp.*	2	EC	2001
Spionidae	*Spionidae sp.*	5	EC	1976-2001
Spionidae	*Spio pacifica*	2	EN	1980
Syllidae	*Amblyosyllis multidenticulata*	2	E	1920
Syllidae	*Amblyosyllis speciosa*	1	C	2009
Syllidae	*Autolytus sp.*	11	E	none
Syllidae	*Branchiosyllis maculata*	1	E	2006
Syllidae	*Branchiosyllis thylacine*	1	E	2006
Syllidae	*Brania kerguelensis*	5	E	none
Syllidae	*Brania pusilla*	2	E	none
Syllidae	*Erinaceusyllis horrockensis*	3	EN	1983-1996
Syllidae	*Eusyllis inflata*	1	E	none
Syllidae	*Exogone africana*	3	EN	1983-1989
Syllidae	*Exogone fustifera*	10	EN	1983-1996
Syllidae	*Exogone heterosetoides*	1	E	1989
Syllidae	*Exogone heterosetosa*	7	ECN	1983-2009
Syllidae	*Exogone naidinoides*	1	C	2009
Syllidae	*Exogone sp.*	2	E	1996
Syllidae	*Haplosyllis sp.*	1	E	1920
Syllidae	*Haplosyllis spongicola*	1	E	2005
Syllidae	*Langerhansia cornuta*	1	C	1986
Syllidae	*Langerhansia ferruginea*	2	E	none
Syllidae	*Megasyllis corruscans*	5	EN	1910-1983
Syllidae	*Megasyllis inflata*	3	E	2006
Syllidae	*Myrianida pachycera*	9	E	1920
Syllidae	*Odontosyllis australiensis*	1	E	1996
Syllidae	*Odontosyllis detecta*	2	E	1920-2005
Syllidae	*Odontosyllis freycinetensis*	2	EN	1971-1983
Syllidae	*Odontosyllis polycera*	2	EN	1983-2006
Syllidae	*Opisthodonta melaenonephra*	3	E	1920
Syllidae	*Parahaplosyllis brevicirra*	4	EC	1996-2009
Syllidae	*Perkinsyllis koolalya*	1	E	1989
Syllidae	*Perkinsyllis sp.*	1	N	1988
Syllidae	*Pionosyllis sp.*	1	E	1996
Syllidae	*Prosphaerosyllis longipapillata*	3	EN	1983-1996
Syllidae	*Prosphaerosyllis magnoculata*	1	E	2009
Syllidae	*Salvatoria koorineclavata*	3	EN	1983-1989
Syllidae	*Salvatoria longisetosa*	1	E	none
Syllidae	*Salvatoria quadrioculata*	4	E	1996-2005
Syllidae	*Syllidae sp.*	25	ECN	1910-2009
Syllidae	*Sphaerosyllis hirsuta*	8	EN	1983-1996
Syllidae	*Syllides japonicus*	1	E	2006
Syllidae	*Syllides longocirrata*	2	E	1972
Syllidae	*Syllides spinosus*	1	E	1996
Syllidae	*Syllis augeneri*	1	E	2005
Syllidae	*Syllis gracilis*	2	EC	1986
Syllidae	*Syllis nigropunctata*	1	E	2005
Syllidae	*Syllis prolifera*	2	E	2003
Syllidae	*Syllis sp.*	6	EN	1972-1996
Syllidae	*Syllis variegata*	2	E	2003
Syllidae	*Syllis zonata*	1	E	2006
Syllidae	*Trypanosyllis coeliaca*	1	C	2009
Syllidae	*Trypanosyllis zebra*	3	E	1968
Syllidae	*Typosyllis armillaris*	3	E	none
Syllidae	*Typosyllis corruscans*	1	E	1968
Syllidae	*Typosyllis parturiens*	1	E	none

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Family	Scientific name	# Records	Regions	Years
Syllidae	*Typosyllis pectinans*	1	E	none
Syllidae	*Typosyllis punctulata*	2	E	none
Syllidae	*Typosyllis sp.*	1	C	2003
Syllidae	*Typosyllis truncata*	1	E	none
Syllidae	*Typosyllis variegata*	3	EC	1968-1998
Terebellidae	*Amaeana sp.*	2	C	2001
Terebellidae	*Amphitrite pachyderma*	1	N	1971
Terebellidae	*Baffinia biseriata*	5	E	1972
Terebellidae	*Eupolymnia koorangia*	2	E	1948
Terebellidae	*Eupolymnia sp.*	1	E	1972
Terebellidae	*Lanice bidewa*	3	E	1972-1996
Terebellidae	*Lanicides fascia*	1	E	1973
Terebellidae	*Lanicides tribranchiata*	1	E	1976
Terebellidae	*Loimia ingens*	3	EC	1892-1979
Terebellidae	*Longicarpus modestus*	27	EC	1946-2001
Terebellidae	*Nicolea amnis*	18	EN	1971-1989
Terebellidae	*Pista australis*	4	EN	1970-1971
Terebellidae	*Pista typha*	1	E	1989
Terebellidae	*Reteterebella aloba*	5	E	1910-2001
Terebellidae	*Streblosoma acymatum*	2	EC	1909-1986
Terebellidae	*Terebellidae sp.*	14	E	1972-2006
Terebellidae	*Terebella conchilega*	1	N	1909
Terebellidae	*Terebella sp.*	1	N	1909
Terebellidae	*Terebella tantabiddycreekensis*	1	N	1983
Terebellidae	*Thelepus australiensis*	1	E	1948
Terebellidae	*Thelepus boja*	3	E	1910-1972
Terebellidae	*Thelepus extensus*	13	EN	1922-1973
Terebellidae	*Thelepus robustus*	1	E	none
Trichobranchidae	*Octobranchus myunus*	2	EC	2001
Trichobranchidae	*Trichobranchus tribranchiata*	1	N	1971
Trichobranchidae	*Trichobranchidae sp.*	1	C	2001
Trichobranchidae	*Terebellides kowinka*	5	EC	1989-2001
Trichobranchidae	*Terebellides mundora*	1	E	2001
Trichobranchidae	*Terebellides sp.*	4	EC	2001

Crustaceans

Family	Scientific name	# Records	Regions	Years
Actaeciidae	*Actaecia bipleura*	2	C	1997
Actaeciidae	*Actaeciidae sp.*	1	N	2002
Aegidae	*Aega cyclops*	1	E	none
Aegidae	*Aega serripes*	1	E	1934
Alpheidae	*Alpheus cf digitalis*	7	EC	1892-1961
Alpheidae	*Alpheus cremnus*	1	E	1967
Alpheidae	*Alpheus edwardsii*	3	EN	1943
Alpheidae	*Alpheus euphrosyne*	1	W	1985
Alpheidae	*Alpheus minor neptunus*	2	E	none
Alpheidae	*Alpheus novaezealandiae*	3	E	none
Alpheidae	*Alpheus pacificus*	1	E	1923
Alpheidae	*Alpheus papillosus*	7	E	1921-1928
Alpheidae	*Alpheus parasocialis*	2	E	1908
Alpheidae	*Alpheus richardsoni*	10	ECN	1919-1982
Alpheidae	*Alpheus socialis*	13	EN	1901-1968
Alpheidae	*Alpheus stephensoni*	2	E	1953
Alpheidae	*Arete dorsalis*	1	E	1975
Alpheidae	*Athanas dimorphus*	1	E	1928
Alpheidae	*Athanas granti*	4	EC	1978
Alpheidae	*Betaeus australis*	1	E	none
Alpheidae	*Synalpheus neptunus neptunus*	1	C	none
Alpheidae	*Synalpheus paraneomeris*	3	EC	1927
Alpheidae	*Synalpheus stimpsonii*	1	E	none
Alpheidae	*Synalpheus streptodactylus*	2	EC	1964
Alpheidae	*Synalpheus tumidomanus*	4	EC	1908-1964
Amaryllididae	*Amaryllis brevicornis*	12	EN	1971-1981
Amaryllididae	*Amaryllis keablei*	2	E	none
Amaryllididae	*Amaryllis macrophthalma*	2	E	1972
Amaryllididae	*Amaryllis sp.*	1	E	1971
Ampeliscidae	*Ampelisca australis*	1	E	none
Ampeliscidae	*Ampelisca sp.*	1	N	1970
Amphilochidae	*Amphilochidae sp.*	1	E	1971

Family	Scientifc name	# Records	Regions	Years
Ampithoidae	*Ampithoe caddi*	4	E	1994-2000
Ampithoidae	*Ampithoe cinerea*	1	E	none
Ampithoidae	*Ampithoe hyalos*	2	E	1981
Ampithoidae	*Ampithoe kava*	9	E	1981-2007
Ampithoidae	*Ampithoe ngana*	8	E	1981-2000
Ampithoidae	*Ampithoe sp.*	1	N	1970
Ampithoidae	*Cymadusa munnu*	4	E	1981-1995
Ampithoidae	*Cymadusa setosa*	1	E	none
Ampithoidae	*Cymadusa sp.*	1	E	none
Ampithoidae	*Exampithoe kutti*	6	E	1994-2000
Ampithoidae	*Peramphithoe parmerong*	6	E	1994-2000
Ampithoidae	*Peramphithoe sp.*	1	E	1987
Ampithoidae	*Plumithoe quadrimana*	2	E	1918-1994
Ampithoidae	*Plumithoe quadrimanus*	2	E	1994
Anamixidae	*Anamixis yarrega*	1	E	1918
Antheluridae	*Anthomuda chorizema*	1	E	1972
Anthuridae	*Amakusanthura olearia*	1	E	1978
Anthuridae	*Anthuridae sp.*	2	E	1973-1977
Anthuridae	*Apanthura styphelia*	1	E	1978
Anthuridae	*Apanthura xanthorrhoea*	2	E	1972
Anthuridae	*Cyathura hakea*	1	C	1978
Anthuridae	*Eisothistos sp.*	1	E	none
Anthuridae	*Eisothistos vermiformis*	1	E	none
Anthuridae	*Haliophasma maculata*	1	E	none
Anthuridae	*Haliophasma purpureum*	2	E	none
Anthuridae	*Mesanthura dianella*	1	E	1972
Anthuridae	*Mesanthura romulea*	1	E	1982
Anthuridae	*Mesanthura sp.*	1	E	none
Aoridae	*Aora mortoni*	6	EN	1980-1982
Aoridae	*Aora sp.*	1	E	1982
Aoridae	*Aora typica*	1	E	none
Aoridae	*Australomicrodeutopus haswelli*	1	E	none
Aoridae	*Bemlos australis*	1	N	1980
Aoridae	*Bemlos sp.*	2	E	1982
Aoridae	*Grandidierella japonica*	1	W	1992
Aoridae	*Lemboides australis*	1	E	1977
Aoridae	*Lembos sp.*	5	EN	1970-1977
Aoridae	*Xenocheira fasciata*	3	E	1976-1977
Apseudidae	*Apseudes australis*	1	E	none
Apseudidae	*Apseudes sp.*	3	E	1976-1977
Archaeobalanidae	*Acasta sulcata*	1	E	none
Archaeobalanidae	*Austrominius covertus*	9	CN	2001-2002
Archaeobalanidae	*Austrominius modestus*	2	E	1953-1954
Archaeobalanidae	*Hexaminius foliorum*	3	C	1984
Archaeobalanidae	*Hexaminius popeiana*	10	CN	1984-2002
Archaeobalanidae	*Striatobalanus amaryllis*	1	C	none
Arcturidae	*Neastacilla deducta*	1	N	1980
Arcturidae	*Neastacilla macilenta*	2	EN	1970-1984
Arcturidae	*Neastacilla sheardi*	4	E	1973
Arcturidae	*Neastacilla vicaria*	1	E	none
Armadillidiidae	*Armadillidium vulgare*	1	W	1992
Ascidicolidae	*Haplostomella australiensis*	1	E	1967
Atyidae	*Paratya australiensis*	5	NW	1929
Axiidae	*Dorphinaxius kermadecensis*	12	E	1907-1976
Axiidae	*Michelaxiopsis australiensis*	4	E	1908-1967
Balanidae	*Amphibalanus amphitrite*	17	ECNW	1900-2001
Balanidae	*Amphibalanus variegatus*	26	ECN	2001-2002
Balanidae	*Austromegabalanus nigrescens*	3	N	1909-1958
Balanidae	*Balanus sp.*	12	EC	1883-1963
Balanidae	*Balanus trigonus*	34	ECN	1890-2002
Balanidae	*Fistulobalanus albicostatus*	1	E	1951
Balanidae	*Megabalanus coccopoma*	1	E	2001
Balanidae	*Megabalanus rosa**	6	E	2001
Balanidae	*Megabalanus tintinnabulum**	1	C	none
Balanidae	*Megabalanus volcano**	3	E	1951-1988
Balanidae	*Notomegabalanus algicola**	6	EN	1945-1959
Bodotriidae	*Cyclaspis aspera*	1	E	1973
Bodotriidae	*Cyclaspis cf strigilis*	1	E	1972
Bresiliidae	*Discias brownae*	3	E	1972-1978
Calappidae	*Calappa depressa*	1	E	none

Family	Scientifc name	# Records	Regions	Years
Calappidae	*Calappa flammea*	1	E	none
Calappidae	*Calappa gallus*	4	EC	1908-1933
Calappidae	*Calappa hepatica*	1	E	none
Calappidae	*Calappa philargius*	14	ECNW	1928-2000
Caligidae	*Caligus sp.*	1	E	1972
Caligidae	*Lepeophtheirus molae*	2	E	1882
Caligidae	*Lepeophtheirus sp.*	1	E	1976
Callianassidae	*Biffarius arenosus*	5	ECN	1963-1968
Callianassidae	*Eucalliax aequimana*	1	N	none
Callianassidae	*Trypaea australiensis*	4	EN	1929-1968
Caprellidae	*Caprella californica**	14	EC	2001
Caprellidae	*Caprella cf penantis?*	1	E	1995
Caprellidae	*Caprella danilevskii***	16	E	1995-2001
Caprellidae	*Caprella equilibra***	11	ECW	1927-2001
Caprellidae	*Caprella penantis***	41	EC	1995-2001
Caprellidae	*Caprella penantis neglecta*	3	E	1927
Caprellidae	*Caprella scaura***	22	ECW	1926-2001
Caprellidae	*Cyrtophium sp.*	1	E	1972
Caprellidae	*Dodecas hexacentrum*	6	E	1887-1974
Caprellidae	*Hemiaegina sp.*	3	E	1988
Caprellidae	*Metaprotella excentrica*	4	E	none
Caprellidae	*Metaprotella sp.*	4	E	none
Caprellidae	*Metaproto novaehollandiae*	6	E	none
Caprellidae	*Orthoprotella australis*	6	E	none
Caprellidae	*Orthoprotella berentsae*	3	E	none
Caprellidae	*Paracaprella alata*	2	E	1900
Caprellidae	*Paradeutella echinata*	7	E	1974-2001
Catophragmidae	*Catomerus polymerus*	3	N	1958
Cheluridae	*Chelura terebrans*	8	ECW	1928-1972
Chondracanthidae	*Acanthochondria sp.*	1	E	none
Chondracanthidae	*Alimeda orientalis*	1	E	none
Chthamalidae	*Chamaesipho tasmanica*	2	E	1982
Chthamalidae	*Chthamalus antennatus*	8	CN	1915-2002
Chthamalidae	*Pachylasma scutistriata*	1	C	none
Chydoridae	*Alonella duoodonta*	1	E	none
Cirolanidae	*Anopsilana willeyi*	2	E	1988
Cirolanidae	*Cirolana arcuata*	4	E	1974
Cirolanidae	*Cirolana australiense*	12	EN	1923-2009
Cirolanidae	*Cirolana furcata*	2	E	1972
Cirolanidae	*Cirolana harfordi**	24	ECN	1972-2009
Cirolanidae	*Cirolana triloba*	1	C	1988
Cirolanidae	*Eurylana arcuata**	7	EC	1987-2009
Cirolanidae	*Natatolana brucei*	3	N	1988
Cirolanidae	*Natatolana bulba*	2	N	1988-1994
Cirolanidae	*Natatolana cf bulba*	1	E	1988
Cirolanidae	*Natatolana corpulenta*	3	N	1988
Cirolanidae	*Natatolana endota*	3	E	1929-1930
Cirolanidae	*Natatolana gorung*	1	E	1988
Cirolanidae	*Natatolana kahiba*	3	NW	1988-1994
Cirolanidae	*Natatolana rusteni*	9	EN	1988
Cirolanidae	*Natatolana woodjonesi*	3	EN	1925-1988
Cirolanidae	*Neocirolana obesa*	1	E	1974
Clausidiidae	*Teredicola typicus*	1	E	1971
Coenobitidae	*Coenobita sp.*	1	E	1922
Colomastigidae	*Colomastix brazieri*	2	E	1973
Colomastigidae	*Yulumara sp.*	1	E	1974
Coronulidae	*Platylepas decorata*	1	E	1985
Coronulidae	*Platylepas sp.*	1	E	1980
Corophiidae	*Apocorophium acutum**	2	E	1926-1987
Corophiidae	*Corophiidae sp.*	4	EN	1972-2002
Corophiidae	*Corophium sp.*	11	ENW	1970-1985
Corophiidae	*Dryopoides sp.*	1	N	1970
Corophiidae	*Haplocheira barbimana*	1	E	none
Corophiidae	*Monocorophium acherusicum**	3	EW	1926-1992
Corophiidae	*Monocorophium insidiosum**	7	W	1985
Corophiidae	*Paracorophium sp.*	1	N	1970
Cryptochiridae	*Cryptochirus coralliodytes*	2	E	1970-1979
Cyamidae	*Isocyamus delphinii*	1	E	1966
Cylindroleberididae	*Cylindroleberididae sp.*	2	N	1988
Cylindroleberididae	*Cylindroleberis sp.*	2	EN	1988

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Family	Scientifc name	# Records	Regions	Years
Cylindroleberididae	*Diasterope sp.*	1	N	1988
Cylindroleberididae	*Synasterope sp.*	1	E	1988
Cymothoidae	*Codonophilus argus*	1	E	none
Cymothoidae	*Codonophilus imbricatus*	5	EN	none
Cymothoidae	*Creniola laticauda*	1	E	none
Cymothoidae	*Irona melanostricta*	1	E	1927
Cymothoidae	*Irona renardi*	2	E	none
Cymothoidae	*Lironeca raynaudii*	1	E	none
Cymothoidae	*Mothocya renardi*	1	E	none
Cymothoidae	*Nerocila macleayi*	1	E	none
Cymothoidae	*Nerocila orbignyi*	2	E	1959
Cymothoidae	*Ourozeuktes owenii*	45	EW	1927-1974
Cymothoidae	*Ourozeuktes pyriformis*	2	E	none
Cypridinidae	*Azygocypridina lowryi*	1	N	1993
Cypridinidae	*Cypridinidae sp.*	3	N	1988-1993
Cypridinidae	*Lowrya kornickeri*	4	N	1993
Cypridinidae	*Siphonostra sp.*	2	E	1988
Cypridinidae	*Skogsbergia sp.*	5	EN	1988-1993
Cypridinidae	*Vargula karamu*	1	E	1988
Cypridinidae	*Vargula sp.*	4	EN	1988-1993
Cyproideidae	*Cyproidea ornata*	5	E	1918-1984
Cyproideidae	*Cyproidea sp.*	1	E	1984
Cyproideidae	*Paracyproidea lineata*	2	E	none
Dexaminidae	*Atylus sp.*	3	E	1971-1972
Dexaminidae	*Dexaminidae sp.*	2	E	1972-1974
Dexaminidae	*Guernea sp.*	2	N	2000
Dexaminidae	*Paradexamine sp.*	3	EN	1918-1977
Dexaminidae	*Polycheria antarctica*	1	E	none
Diastylidae	*Dimorphostylis colefaxi*	5	W	1985-1992
Dichelesthiidae	*Anthosoma crassum*	2	E	none
Diogenidae	*Calcinus latens*	1	E	none
Diogenidae	*Cancellus typus*	8	EC	1939-1953
Diogenidae	*Clibanarius virescens*	5	E	1889-1926
Diogenidae	*Dardanus arrosor*	3	E	none
Diogenidae	*Dardanus deformis*	2	EN	none
Diogenidae	*Dardanus pedunculatus*	6	E	1929-1974
Diogenidae	*Dardanus setifer*	2	E	1953
Diogenidae	*Diogenes custos*	10	EN	1929-1972
Diogenidae	*Diogenes senex*	4	E	none
Diogenidae	*Paguristes pugil*	3	E	none
Diogenidae	*Paguristes squamosus*	5	EN	1889
Diogenidae	*Strigopagurus strigimanus*	1	E	none
Dromiidae	*Cryptodromia sp.*	1	E	none
Dromiidae	*Dromidiopsis australiensis*	3	E	1922
Dromiidae	*Dromidiopsis sp.*	1	E	none
Dromiidae	*Epigodromia sculpta*	9	E	1922-1926
Dromiidae	*Lamarckdromia globosa*	8	E	1886
Dromiidae	*Metadromia wilsoni*	1	E	none
Dromiidae	*Stimdromia lateralis*	15	EC	1922-1972
Endevouridae	*Ensayara sp.*	1	E	1976
Enoplometopidae	*Enoplometopus occidentalis*	1	E	1979
Epialtidae	*Huenia bifurcata*	10	E	1923-1926
Epialtidae	*Menaethius monoceros*	1	E	1928
Eudactylinidae	*Nemesis lamna*	1	E	none
Eusiridae	*Eusiridae sp.*	1	E	1972
Eusiridae	*Eusiroides monoculoides*	3	E	1974
Eusiridae	*Eusiroides sp.*	1	E	1978
Eusiridae	*Gondogeneia microdeuteropa*	2	E	1918
Eusiridae	*Gondogeneia sp.*	1	E	1969
Eusiridae	*Paramoera fissicauda*	1	E	none
Eusiridae	*Sancho kuiteri*	7	E	1981
Exoedicerotidae	*Exoediceroides maculosus*	22	EN	1980-1990
Exoedicerotidae	*Exoediceros fossor*	27	ECN	1980-2000
Galatheidae	*Galathea australiensis*	6	E	1895-1928
Galatheidae	*Galathea whiteleggii*	1	E	none
Gnathiidae	*Gnathia ferox*	2	E	none
Gnathiidae	*Gnathia pustulosa*	1	E	none
Gnathophyllidae	*Gnathophyllum americanum*	1	E	1976
Gnathophyllidae	*Gnathophyllum taylori*	1	E	none
Goneplacidae	*Ommatocarcinus macgillivrayi*	7	E	1930

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Family	Scientifc name	# Records	Regions	Years
Gonodactylidae	*Gonodactylus chiragra*	1	E	1948
Grapsidae	*Planes minutus*	1	E	none
Grapsidae	*Leptograpsodes octodentatus*	1	E	none
Grapsidae	*Leptograpsus variegatus*	6	E	1922
Grapsidae	*Pachygrapsus laevimanus*	2	E	1924-1968
Grapsidae	*Pachygrapsus transversus*	6	E	1922-1923
Grapsidae	*Planes minutus*	1	E	none
Gynodiastylidae	*Gynodiastylis cf costata*	1	E	1974
Gynodiastylidae	*Gynodiastylis costata*	1	E	none
Heloeciidae	*Heloecius cordiformis*	18	ECNW	1923-1962
Hemisquillidae	*Hemisquilla australiensis*	2	E	1903
Heteralepadidae	*Heteralepas sp.*	8	EC	1924-1964
Hexapodidae	*Hexapinus granuliferus*	2	E	none
Hippolytidae	*Alope orientalis*	8	E	1889-2005
Hippolytidae	*Lysmata sp.*	1	E	1972
Hyalidae	*Hyale niger*	1	E	2000
Hyalidae	*Hyale sp.*	3	E	1923
Hyalidae	*Protohyale niger*	1	E	none
Hyalidae	*Protohyale rubra*	1	E	1984
Hyalidae	*Protohyale rupicola*	2	E	none
Hyalidae	*Ptilohyale crassicornis*	2	EC	1922-1992
Hymenosomatidae	*Amarinus laevis*	3	N	none
Hymenosomatidae	*Amarinus paralacustris*	2	CW	1929-1985
Hymenosomatidae	*Halicarcinides nuytsi*	1	E	1926
Hymenosomatidae	*Halicarcinus ovatus*	37	ECN	1923-2001
Hymenosomatidae	*Hymenosoma hodgkini*	3	CW	1992-2001
Hymenosomatidae	*Neorhynchoplax octagonalis*	1	N	none
Iblidae	*Ibla quadrivalvis*	6	EN	1958-2002
Iciliidae	*Icilius australis*	4	E	1972
Iciliidae	*Icilius sp.*	1	E	1909
Idoteidae	*Idotea metallica*	3	E	none
Idoteidae	*Idoteidae sp.*	1	N	1979
Inachidae	*Achaeus brevirostris*	3	E	none
Inachidae	*Achaeus curvirostris*	4	E	1928
Inachidae	*Achaeus lacertosus*	7	EN	1942
Inachidae	*Dumea cf latipes*	1	E	none
Inachidae	*Dumea latipes*	8	EN	1923-1971
Inachidae	*Oncinopus aranea*	8	E	1894-2001
Inachidae	*Oncinopus neptunus*	2	E	1976
Iphimediidae	*Iphimedia ambigua*	1	E	none
Iphimediidae	*Iphimedia discreta*	1	E	1918
Iphimediidae	*Iphimediidae sp.*	1	E	1976
Isaeidae	*Isaeidae sp.*	2	E	1974
Ischyroceridae	*Ambicholestes berentsae*	4	E	1984
Ischyroceridae	*Cerapus sp.*	1	E	1976
Ischyroceridae	*Cerapus tubularis*	1	E	1974
Ischyroceridae	*Ericthonius brasiliensis*	2	E	1926-1927
Ischyroceridae	*Ericthonius coxacanthus*	1	W	1992
Ischyroceridae	*Ericthonius sp.*	1	E	1923
Ischyroceridae	*Ischyroceridae sp.*	1	E	1977
Ischyroceridae	*Ischyrocerus longimanus*	2	E	1918-1976
Ischyroceridae	*Jassa australis*	1	C	1999
Ischyroceridae	*Jassa marmorata**	3	E	1926-1927
Ischyroceridae	*Jassa slatteryi**	1	N	none
Ischyroceridae	*Parajassa sp.*	2	E	1972-1976
Janiridae	*Ectias sp.*	1	E	1974
Janiridae	*Iais pubescens longistylis*	2	CN	1920
Janiridae	*Ianiropsis alanmillari*	2	E	1995
Janiridae	*Ianiropsis sp.*	6	E	1972-1992
Janiridae	*Iathrippa longicauda*	2	E	1974
Janiridae	*Iathrippa sp.*	5	E	1887-1974
Joeropsididae	*Joeropsis cf palliseri*	1	E	1974
Joeropsididae	*Joeropsis sp.*	4	E	1972-1976
Kalliapseudidae	*Kalliapseudes obtusifrons*	4	E	1976-1977
Laomediidae	*Laomedia healyi*	4	ECW	1924-1935
Latreilliidae	*Eplumula australiensis*	4	EC	1978
Lepadidae	*Alepas pacifica*	1	E	1962
Lepadidae	*Alepas tubulosa*	1	E	none
Lepadidae	*Conchoderma auritum*	3	E	1955-1963
Lepadidae	*Lepas hilli*	3	E	1950-1988

Family	Scientifc name	# Records	Regions	Years
Leptocheliidae	*Leptochelia ignota*	17	EC	1994-2001
Leucosiidae	*Bellidilia undecimspinosa*	10	E	1897-1929
Leucosiidae	*Ebalia crassipes*	17	E	1897-1929
Leucosiidae	*Ebalia dentifrons*	4	E	1895-1929
Leucosiidae	*Ebalia intermedia*	1	E	1928
Leucosiidae	*Ebalia ramsayi*	4	EN	none
Leucosiidae	*Leucosia anatum*	4	E	none
Leucosiidae	*Paranursia abbreviata*	1	E	none
Leucosiidae	*Philyra platycheir*	3	E	1929
Leucothoidae	*Leucothoe assimilis*	2	E	1976
Leucothoidae	*Leucothoe cf spinicarpa*	4	E	1972-1974
Leucothoidae	*Leucothoe cf trailli*	1	E	1974
Leucothoidae	*Leucothoe commensalis*	5	E	none
Leucothoidae	*Leucothoe spinicarpa*	3	EN	1895
Leucothoidae	*Paraleucothoe novaehollandiae*	7	E	1948-1968
Lichomolgidae	*Lichomolgus eganae*	1	E	1974
Ligiidae	*Ligia australiensis*	1	C	none
Ligiidae	*Ligia cf exotica*	1	E	2001
Ligiidae	*Ligia exotica*	8	ECNW	1932-2002
Liljeborgiidae	*Liljeborgia dubia*	1	E	1972
Liljeborgiidae	*Liljeborgia pallida*	1	E	none
Limnoriidae	*Limnoria indica*	3	ECW	1971
Limnoriidae	*Limnoria lignorum*	1	E	none
Limnoriidae	*Limnoria quadripunctata*	13	ECNW	1970-1971
Limnoriidae	*Limnoria rugosissima*	5	EC	2001
Limnoriidae	*Limnoria saseboensis*	5	ECNW	1970-1971
Limnoriidae	*Limnoria tripunctata*	16	ECNW	1928-1971
Lysianassidae	*Hippomedon sp.*	1	N	1970
Lysianassidae	*Lysianassidae sp.*	2	E	1972
Lysianassidae	*Parawaldeckia sp.*	12	EN	1970-1974
Lysianassidae	*Parawaldeckia yamba*	1	E	1981
Lysianassidae	*Shoemakerella sp.*	2	E	1923-1938
Lysianassidae	*Tryphosella tathra*	2	E	1988-1993
Lysianassidae	*Tryphosoides sp.*	3	EN	1971-1988
Lysianassidae	*Waldeckia australiensis*	1	E	none
Lysianassidae	*Waldeckia nitens*	1	E	none
Macrophthalmidae	*Australoplax tridentata*	2	NW	1941
Macrophthalmidae	*Ilyograpsus paludicola*	1	N	none
Macrophthalmidae	*Macrophthalmus crassipes*	13	EC	1923
Macrophthalmidae	*Macrophthalmus setosus*	9	ECNW	1943-1962
Macrophthalmidae	*Macropththalmus punctulatus*	1	C	1923
Macrophthalmidae	*Tasmanoplax latifrons*	2	EW	1992
Maeridae	*Austromaera mastersii*	5	EN	1971-1977
Maeridae	*Ceradocus ramsayi*	7	EN	1927-1972
Maeridae	*Ceradocus rubromaculatus*	8	E	1918-1976
Maeridae	*Ceradocus serratus*	1	E	1976
Maeridae	*Ceradocus sp.*	2	E	1923-1972
Maeridae	*Elasmopus alalo*	1	N	1979
Maeridae	*Elasmopus sp.*	2	EN	1970-1976
Maeridae	*Linguimaera boecki*	3	E	1976
Maeridae	*Linguimaera hamigera*	2	E	none
Maeridae	*Linguimaera sp.*	1	N	1971
Maeridae	*Maera sp.*	3	EN	1972-1974
Maeridae	*Mallacoota kameruka*	1	E	none
Maeridae	*Mallacoota malua*	2	E	1996
Maeridae	*Mallacoota sp.*	2	E	1972
Maeridae	*Mallacoota subcarinata*	5	EN	1972-1974
Maeridae	*Parelasmopus sowpigensis*	4	E	1976
Maeridae	*Quadrimaera viridis*	4	E	1974-1976
Majidae	*Hyastenus diacanthus*	21	ECNW	1977-1980
Majidae	*Hyastenus elatus*	34	ECNW	1894-1981
Majidae	*Leptomithrax gaimardii*	2	E	none
Majidae	*Leptomithrax sternocostulatus*	10	E	1895-1968
Majidae	*Leptomithrax tuberculatus*	1	E	1964
Majidae	*Micippa spinosa*	14	ECN	1894-1971
Majidae	*Microhalimus deflexifrons*	8	E	1927-1968
Majidae	*Naxia spinosa*	9	EN	1930
Majidae	*Naxia tumida*	7	E	1901-1968
Majidae	*Notomithrax minor*	13	ECN	1923-1972
Majidae	*Notomithrax ursus*	1	E	none

Family	Scientifc name	# Records	Regions	Years
Majidae	*Paramithrax barbicornis*	3	E	1906
Majidae	*Pippacirama tuberculosa*	10	E	1926-1928
Majidae	*Prismatopus spatulifer*	1	E	none
Majidae	*Stenorhynchus falcifer*	1	E	none
Majidae	*Tumulosternum longimanus*	7	E	1923-1939
Matutidae	*Ashtoret lunaris*	2	E	none
Matutidae	*Matuta planipes*	5	EN	none
Melitidae	*Dulichiella australis*	7	E	1918-1996
Melitidae	*Hoho cf hirtipalma*	1	E	none
Melitidae	*Megamoera subcarinata*	1	E	none
Melitidae	*Melita festiva*	1	E	1923
Melitidae	*Melita matilda*	4	ENW	1920-2002
Melitidae	*Melita ophiocola*	50	E	1977-1995
Melitidae	*Melita plumulosa*	25	NW	1920-2006
Melitidae	*Melitidae sp.*	4	E	1972-1977
Melitidae	*Parapherusa crassipes*	2	E	none
Melitidae	*Victoriopisa australiensis*	6	W	1985-1994
Melphidippidae	*Prosocratus butcheri*	1	N	1980
Mictyridae	*Mictyris longicarpus*	23	EN	1900-1943
Mictyridae	*Mictyris platycheles*	1	E	none
Munididae	*Munida haswelli*	1	E	none
Mysidae	*Heteromysis cf abrucei*	4	EC	2001
Mysidae	*Mysidae sp.*	5	E	none
Mysidae	*Rhopalophthalmus brisbanensis*	10	EC	2001
Nannastacidae	*Nannastacidae sp.*	1	E	1989
Nannastacidae	*Nannastacus sp.*	1	E	1981
Nannosquillidae	*Hadrosquilla perpasta*	1	E	1929
Nebaliidae	*Nebalia longicornis*	1	C	1928
Nebaliidae	*Nebaliidae sp.*	2	EN	1980-1982
Notodelphyidae	*Doropygus flexus*	1	N	1973
Notodelphyidae	*Pachypygus australis*	1	E	1973
Notodromatidae	*Newnhamia fenestrata*	1	C	none
Ocypodidae	*Ocypode cordimana*	2	E	none
Ocypodidae	*Scopimera sp.*	1	N	none
Ocypodidae	*Uca crassipes*	1	N	none
Ocypodidae	*Uca vomeris*	3	EN	1958-1959
Oedicerotidae	*Monoculodes sp.*	1	E	1971
Oithonidae	*Oithona australis*	1	E	1983
Oziidae	*Ozius deplanatus*	1	E	2001
Oziidae	*Ozius truncatus*	11	EN	1888-1968
Paguridae	*Lophopagurus nanus*	1	E	none
Paguridae	*Pagurixus jerviensis*	2	E	none
Paguridae	*Pagurus cf janitor*	1	E	1968
Paguridae	*Pagurus sinuatus*	7	E	1925-1972
Palaemonidae	*Macrobrachium novaehollandiae*	15	ECW	1927-2004
Palaemonidae	*Palaemon intermedius*	12	ECN	1926-1976
Palaemonidae	*Palaemon litoreus*	2	EC	1971
Palaemonidae	*Palaemon serenus*	12	E	1922-1971
Palaemonidae	*Palaemonetes atrinubes*	1	N	none
Palaemonidae	*Periclimenes carinidactylus*	2	E	1966
Palaemonidae	*Periclimenes cf commensalis*	1	E	1976
Palinuridae	*Panulirus ornatus*	4	E	1958-1959
Palinuridae	*Sagmariasus verreauxi*	8	E	1907
Pandalidae	*Chlorotocella spinicaudus*	1	E	1976
Pandaridae	*Nesippus incisus*	2	E	none
Pandaridae	*Pandarus bicolor*	1	E	none
Paracalliopiidae	*Paracalliope australis*	2	W	1992
Paracalliopiidae	*Paracalliope sp.*	2	W	1985
Paramunnidae	*Heterosignum sp.*	2	E	1918-1989
Paramunnidae	*Paramunna sp.*	1	E	1995
Paramunnidae	*Paramunnidae sp.*	2	E	1989
Paranebaliidae	*Paranebalia longipes*	2	E	none
Paranebaliidae	*Paranebalia sp.*	3	E	1982-1984
Paranthuridae	*Accalathura sp.*	1	E	none
Paranthuridae	*Leptanthura boweni*	2	E	1978-1982
Paranthuridae	*Leptanthura diemenensis*	2	EN	1927-1980
Paranthuridae	*Paranthura ciliata*	1	E	none
Paranthuridae	*Paranthura grevillea*	3	E	1973
Paranthuridae	*Paranthura miersi*	1	E	none
Paranthuridae	*Paranthura senecio*	1	E	1981

Family	Scientifc name	# Records	Regions	Years
Paranthuridae	*Paranthura sp.*	2	E	1972
Paranthuridae	*Paranthuridae sp.*	1	E	none
Paratanaidae	*Bathytanais juergeni*	1	E	2001
Paratanaidae	*Paratanais cf ignotus*	6	E	1972-1974
Paratanaidae	*Paratanais linearis*	1	E	none
Paratanaidae	*Paratanais sp.*	4	E	2001
Parthenopidae	*Cryptopodia spatulifrons*	1	E	none
Parthenopidae	*Platylambrus validus*	1	E	1994
Penaeidae	*Melicertus canaliculatus*	18	ECW	1913
Penaeidae	*Melicertus plebejus*	7	ECNW	1948-1999
Penaeidae	*Metapenaeopsis palmensis*	3	ECN	1954
Penaeidae	*Metapenaeus bennettae*	5	E	none
Penaeidae	*Metapenaeus ensis*	2	E	none
Penaeidae	*Metapenaeus macleayi*	10	EC	1972
Penaeidae	*Penaeus esculentus*	4	EW	none
Penaeidae	*Penaeus monodon*	4	E	1908-1909
Penaeidae	*Trachypenaeus curvirostris*	1	E	1972
Percnidae	*Percnon planissimum*	1	E	none
Philomedidae	*Euphilomedes sp.*	3	EN	1988
Philomedidae	*Philomedes sp.*	1	E	1988
Philomedidae	*Scleroconcha sp.*	1	E	1988
Philosciidae	*Philosciidae sp.*	1	W	1992
Phliantidae	*Iphiplateia whiteleggei*	2	E	none
Photidae	*Ampelisciphotis sp.*	1	E	1977
Photidae	*Gammaropsis cf hirsutus*	2	E	1973-1974
Photidae	*Gammaropsis crassipes*	3	E	1972
Photidae	*Gammaropsis dentifera*	1	E	none
Photidae	*Gammaropsis sp.*	8	EW	1973-1985
Photidae	*Photis dolichommata*	5	E	1971-1974
Photidae	*Photis sp.*	3	E	1973-1974
Phoxocephalidae	*Birubius jirrandus*	1	N	1970
Phoxocephalidae	*Birubius muldarpus*	1	E	1972
Phoxocephalidae	*Brolgus tattersalli*	1	E	1972
Phoxocephalidae	*Harpinia sp.*	1	E	1918
Phoxocephalidae	*Matong matong*	1	E	none
Phoxocephalidae	*Parharpinia villosa*	2	E	none
Phoxocephalidae	*Tipimegus kangulun*	1	E	1972
Pilumnidae	*Actumnus setifer*	2	E	none
Pilumnidae	*Ceratoplax cf glaberrima*	1	E	1968
Pilumnidae	*Ceratoplax glaberrima*	7	E	1895-1929
Pilumnidae	*Ceratoplax inermis*	1	E	none
Pilumnidae	*Eumedonus niger*	1	E	none
Pilumnidae	*Heteropanope sp.*	1	C	1933
Pilumnidae	*Heteropilumnus fimbriatus*	2	E	1926-1928
Pilumnidae	*Mertonia integra*	1	E	none
Pilumnidae	*Pilumnopeus serratifrons*	14	ENW	1888-1972
Pilumnidae	*Pilumnus fissifrons*	11	EC	1902-1928
Pilumnidae	*Pilumnus rufopunctatus*	12	EC	1888-1987
Pilumnidae	*Pilumnus spinicarpus*	1	E	none
Pilumnidae	*Pilumnus tomentosus*	1	E	1972
Pilumnidae	*Pilumnus vestitus*	35	EC	1922-1930
Pilumnidae	*Rhizopa gracilipes*	4	EC	1933
Pinnotheridae	*Pinnotheres hickmani*	3	EC	1930
Plagusiidae	*Davusia glabra*	6	E	1930
Plagusiidae	*Guinusia chabrus*	9	EN	1922-2001
Plagusiidae	*Plagusia squamosa*	1	E	none
Podoceridae	*Cyrtophium minutum*	2	E	none
Podoceridae	*Leipsuropus parasiticus*	3	E	1976
Podoceridae	*Podocerus dentatus*	2	E	1976
Podoceridae	*Podocerus sp.*	2	EW	1918-1992
Podoceridae	*Podocerus vulgaris*	1	E	1982
Poecilasmatidae	*Octolasmis neptuni*	1	E	none
Poecilasmatidae	*Octolasmis nierstraszi*	1	E	1988
Poecilasmatidae	*Octolasmis orthogonia*	1	C	none
Poecilasmatidae	*Octolasmis sp.*	3	EC	1965
Poecilasmatidae	*Octolasmis warwicki*	1	E	none
Pontellidae	*Pontella whiteleggei*	1	E	none
Porcellanidae	*Ancylocheles gravelei*	1	E	1930
Porcellanidae	*Lissoporcellana spinuligera*	10	EC	1894-1923
Porcellanidae	*Pachycheles granti*	1	E	1932

Family	Scientifc name	# Records	Regions	Years
Porcellanidae	*Pisidia dispar*	56	EC	1939-2001
Porcellanidae	*Polyonyx transversus*	2	E	2001
Porcellionidae	*Porcellio scaber*	1	W	1992
Portunidae	*Charybdis feriata*	6	EW	1887-2000
Portunidae	*Charybdis granulata*	1	E	2000
Portunidae	*Charybdis hellerii*	1	E	1974
Portunidae	*Charybdis miles*	1	E	2000
Portunidae	*Charybdis natator*	2	E	1929-1974
Portunidae	*Lissocarcinus polybioides*	1	E	1929
Portunidae	*Nectocarcinus integrifrons*	29	EN	1886-1926
Portunidae	*Ovalipes australiensis*	10	EN	1907-1977
Portunidae	*Portunus armatus*	6	EW	1887-1968
Portunidae	*Portunus granulatus unispinosa*	1	E	1929
Portunidae	*Portunus orbitosinus*	1	E	1974
Portunidae	*Portunus pubescens*	1	E	none
Portunidae	*Portunus rubromarginatus*	2	E	1923-1974
Portunidae	*Portunus sanguinolentus*	2	EW	1926-1974
Portunidae	*Scylla serrata*	3	CN	1959-1961
Portunidae	*Thalamita admete*	1	E	1926
Portunidae	*Thalamita macropus*	4	E	1926-1929
Portunidae	*Thalamita picta*	3	E	none
Portunidae	*Thalamita sima*	10	EN	1908-1988
Portunidae	*Thalamita sp.*	4	EC	1923-1926
Processidae	*Processa sp.*	3	E	1923
Raninidae	*Ranina ranina*	4	E	1929-1936
Rhynchocinetidae	*Rhynchocinetes serratus*	8	E	1889-1923
Rutidermatidae	*Rutidermatidae sp.*	1	N	1988
Scalpellidae	*Smilium peronii*	3	EC	none
Scyllaridae	*Arctides antipodarum*	7	E	1903-1967
Scyllaridae	*Crenarctus crenatus*	4	E	1927-1932
Scyllaridae	*Ibacus peronii*	16	ECW	1970
Scyphacidae	*Deto marina*	1	W	1992
Scyphacidae	*Scyphacidae sp.*	3	NW	1992-2002
Sergestidae	*Acetes sibogae*	10	ECNW	1923-2001
Serolidae	*Serolina eugeniae*	1	E	1972
Serolidae	*Serolis pallida*	1	E	none
Sesarmidae	*Parasesarma erythodactyla*	25	ECNW	1898-1962
Sicyonidae	*Sicyonia metavitulans*	1	E	none
Sphaeromatidae	*Amphoroidella elliptica*	1	E	none
Sphaeromatidae	*Cerceis acuticaudata*	1	E	1926
Sphaeromatidae	*Cerceis sp.*	1	E	1928
Sphaeromatidae	*Cerceis trispinosa*	1	E	none
Sphaeromatidae	*Cerceis tuberculosus*	1	C	none
Sphaeromatidae	*Cilicaea cf latreilli*	1	E	none
Sphaeromatidae	*Cilicaea crassa*	2	E	none
Sphaeromatidae	*Cilicaea sp.*	2	E	1974-1977
Sphaeromatidae	*Cilicaea tenuicaudata*	3	E	none
Sphaeromatidae	*Cilicaeopsis halei*	1	E	none
Sphaeromatidae	*Cilicaeopsis sp.*	2	E	1976
Sphaeromatidae	*Cymodetta gambosa*	2	W	1992
Sphaeromatidae	*Cymodetta sp.*	1	C	1977
Sphaeromatidae	*Cymodoce aculeata*	3	EN	1926-1927
Sphaeromatidae	*Cymodoce aspera*	1	E	none
Sphaeromatidae	*Cymodoce bidentata*	1	E	none
Sphaeromatidae	*Cymodoce sp.*	8	EN	1935-1988
Sphaeromatidae	*Cymodopsis sp.*	2	EN	1970-1972
Sphaeromatidae	*Dynoides barnardii*	2	C	1927
Sphaeromatidae	*Exosphaeroma alata*	4	CW	1927-1928
Sphaeromatidae	*Exosphaeroma alveola*	3	EN	1984-1985
Sphaeromatidae	*Exosphaeroma sp.*	5	EC	1972-1977
Sphaeromatidae	*Haswellia anomala*	2	E	none
Sphaeromatidae	*Haswellia carnea*	3	E	none
Sphaeromatidae	*Haswellia emarginata*	1	E	none
Sphaeromatidae	*Haswellia juxtacarnea*	1	E	1926
Sphaeromatidae	*Haswellia sp.*	2	E	none
Sphaeromatidae	*Ischyromene sp.*	1	E	1929
Sphaeromatidae	*Neosphaeroma australe*	2	E	none
Sphaeromatidae	*Neosphaeroma laticaudata*	1	E	1973

Family	Scientifc name	# Records	Regions	Years
Sphaeromatidae	*Neosphaeroma latifrons*	1	E	none
Sphaeromatidae	*Oxinasphaera bisubula*	1	E	none
Sphaeromatidae	*Oxinasphaera lobivia*	1	N	1981
Sphaeromatidae	*Paracassidina prolata*	2	E	1972
Sphaeromatidae	*Paracerceis sculpta**	18	EC	1984-2001
Sphaeromatidae	*Paracilicaea cf septemdentata*	1	E	1972
Sphaeromatidae	*Paracilicaea pubescens*	11	E	1902-1928
Sphaeromatidae	*Paracilicaea septemdentata*	1	E	none
Sphaeromatidae	*Sphaeroma aspera*	2	E	none
Sphaeromatidae	*Sphaeroma quoianum*	20	ECNW	1920-1929
Sphaeromatidae	*Sphaeroma sp.*	5	ECW	1970-1988
Sphaeromatidae	*Sphaeroma terebrans*	3	CW	1924-1926
Sphaeromatidae	*Sphaeroma walkeri**	16	C	1927-2001
Sphaeromatidae	*Sphaeromatidae sp.*	4	EN	1887-2002
Sphaeromatidae	*Syncassidina aestuaria*	2	W	1985-1992
Spongicolidae	*Microprosthema validum*	4	E	1926-1983
Squillidae	*Belosquilla laevis*	29	ECW	1928-1994
Squillidae	*Erugosquilla grahami*	11	EN	1989-2000
Squillidae	*Erugosquilla woodmasoni*	1	E	1994
Squillidae	*Harpiosquilla melanoura*	4	E	1925-2000
Squillidae	*Levisquilla jurichi*	1	C	1933
Squillidae	*Oratosquilla oratoria**	13	ECW	1985-2003
Squillidae	*Oratosquillina berentsae*	1	E	1994
Squillidae	*Oratosquillina interrupta*	1	E	none
Stenetriidae	*Stenetrium armatum*	3	E	1974
Stenetriidae	*Stenetrium sp.*	3	E	1887-1974
Stenetriidae	*Tenupedunculus acutum*	1	E	1972
Stenopodidae	*Stenopus hispidus*	2	E	1976
Stenothoidae	*Stenothoe cf miersi*	1	E	none
Stenothoidae	*Stenothoe miersi*	1	C	1999
Stenothoidae	*Stenothoe valida***	1	E	1918
Stenothoidae	*Stenothoidae sp.*	2	E	1926-1977
Synopiidae	*Tiron sp.*	1	E	1972
Taeniacanthidae	*Cirracanthus monacanthi*	1	C	2001
Taeniacanthidae	*Taeniacanthus similis*	2	C	2001
Talitridae	*Arcitalitrus sylvaticus*	5	EC	none
Talitridae	*Microrchestia macleayana*	3	W	2001
Talitridae	*Notorchestia quadrimana*	1	E	2009
Talitridae	*Orchestia chilensis*	1	C	1965
Talitridae	*Orchestia macleayana*	3	E	none
Talitridae	*Orchestia sp.*	3	CW	1977-1992
Talitridae	*Pittorchestia australis*	1	W	2001
Talitridae	*Platorchestia smithi*	1	N	2002
Talitridae	*Platorchestia sp.*	1	N	2004
Talitridae	*Talitridae sp.*	1	E	2003
Talitridae	*Talorchestia quadrimana*	1	E	none
Talitridae	*Talorchestia sp.*	1	E	none
Tanaidae	*Tanaidae sp.*	4	E	1972-1974
Tanaidae	*Tanais tenuicornis*	3	C	2001
Tetraclitidae	*Austrobalanus imperator*	6	ECN	2001-2002
Tetraclitidae	*Tesseropora rosea*	10	ECN	1890-2002
Tetraclitidae	*Tetraclitella purpurascens*	6	EN	1890-2002
Tetrasquillidae	*Acaenosquilla brazieri*	1	E	none
Upogebiidae	*Acutigebia simsoni*	1	E	1929
Upogebiidae	*Austinogebia spinifrons*	1	E	none
Upogebiidae	*Upogebia bowerbankii*	6	ECN	1967
Uristidae	*Ichnopus parriwi*	5	EN	1938-1988
Uristidae	*Ichnopus tenuicornis*	1	E	none
Urohaustoriidae	*Urohaustorius metungi*	3	EN	1980
Varunidae	*Cyclograpsus audouinii*	11	EN	1922-2002
Varunidae	*Helograpsus haswellianus*	5	CNW	1941-1962
Varunidae	*Paragrapsus laevis*	36	ECNW	1888-2002
Varunidae	*Pseudohelice subquadrata*	1	E	none
Vibiliidae	*Vibilia sp.*	1	E	1990
Xanthidae	*Actaea granulata*	16	EC	1895-1933
Xanthidae	*Actaea peronii*	6	E	1905-1975
Xanthidae	*Actaeodes tomentosus*	1	C	none
Xanthidae	*Atergatis floridus*	1	E	1922
Xanthidae	*Banareia inconspicua*	1	E	none
Xanthidae	*Calvactaea tumida*	5	E	1929

Family	Scientifc name	# Records	Regions	Years
Xanthidae	*Chlorodiella nigra*	1	E	none
Xanthidae	*Etisus demani*	1	E	1926
Xanthidae	*Leptodius exaratus*	1	E	none
Xanthidae	*Liomera cf cinctimana*	1	E	1983
Xanthidae	*Lybia australiensis*	1	E	1928
Xanthidae	*Megametope punctatus*	1	E	1929
Xanthidae	*Paraxanthias notatus*	4	E	1922
Xanthidae	*Pilodius areolatus*	3	E	1925
Xanthidae	*Xanthias elegans*	1	E	none
Xanthidae	*Xanthias sp.*	1	E	1968

Echinoderms

Family	Scientifc name	# Records	Regions	Years
Amphiuridae	*Amphioplus lobata*	3	EC	none
Amphiuridae	*Amphipholis squamata*	4	EN	1971-1981
Amphiuridae	*Amphiura constricta*	9	EC	1959-1972
Amphiuridae	*Amphiura dolia*	3	E	none
Amphiuridae	*Amphiura leptotata*	1	E	1975
Amphiuridae	*Amphiura sp.*	4	EC	none
Amphiuridae	*Ophiocentrus cf fragilis*	1	E	1951
Amphiuridae	*Ophiocentrus pilosa*	2	E	none
Antedonidae	*Antedon incommoda*	2	E	1912
Antedonidae	*Antedon loveni*	14	E	1909-1923
Asteriidae	*Allostichaster polyplax*	15	EN	1922-1976
Asteriidae	*Astrostole rodolphi*	3	E	1976
Asteriidae	*Coscinasterias calamaria*	64	EN	1885-2001
Asteriidae	*Coscinasterias muricata*	23	EN	1885-1909
Asteriidae	*Uniophora granifera*	14	EN	1909-1981
Asterinidae	*Indianastra inopinata*	6	E	none
Asterinidae	*Meridiastra calcar*	31	EN	none
Asterinidae	*Meridiastra gunnii*	1	E	none
Asterinidae	*Meridiastra oriens*	18	E	1966
Asterinidae	*Nepanthia belcheri*	4	C	1885
Asterinidae	*Paranepanthia grandis*	10	E	1964-1966
Asterinidae	*Parvulastra exigua*	21	EN	1922-2002
Asteropseidae	*Petricia vernicina*	10	E	1969-1981
Astropectinidae	*Astropecten polyacanthus*	35	EN	1895-1981
Astropectinidae	*Astropecten vappa*	18	E	1966-1976
Astropectinidae	*Bollonaster pectinatus*	1	E	none
Brissidae	*Brissus agassizii*	9	E	1947-2002
Brissidae	*Eupatagus valenciennesii*	4	E	none
Brissidae	*Metalia angustus*	1	E	1980
Brissidae	*Rhynobrissus hemiasteroides*	1	E	none
Caudinidae	*Caudina sp.*	1	E	none
Chiridotidae	*Chiridota gigas*	1	E	none
Chiridotidae	*Scoliorhapis theeli*	3	E	1963
Chiridotidae	*Taeniogyrus australianus*	3	EN	1923-1968
Chiridotidae	*Trochodota maculata*	1	E	1977
Cidaridae	*Goniocidaris tubaria*	12	E	none
Cidaridae	*Phyllacanthus parvispinus*	27	EC	1961-2001
Cidaridae	*Prionocidaris australis*	2	E	1964
Cidaridae	*Prionocidaris callista*	2	E	1964-1982
Clypeasteridae	*Clypeaster australasiae*	3	E	none
Clypeasteridae	*Clypeaster sp.*	2	E	1964
Comasteridae	*Cenolia tasmaniae*	3	E	none
Comasteridae	*Cenolia trichoptera*	12	EC	1909-1981
Comasteridae	*Clarkcomanthus littoralis*	1	E	none
Comasteridae	*Comanthus wahlbergii*	2	E	1912
Comasteridae	*Comatella stelligera*	1	E	none
Comasteridae	*Comatula solaris*	2	E	none
Cucumariidae	*Cucuvitrum rowei*	1	E	1977
Cucumariidae	*Plesiocolochirus australis*	15	ECN	1967
Cucumariidae	*Plesiocolochirus ignava*	2	EN	1973
Cucumariidae	*Plesiocolochirus spinosus*	34	E	none
Diadematidae	*Centrostephanus rodgersii*	21	EC	1964-1978

Family	Scientifc name	# Records	Regions	Years
Diadematidae	*Diadema savignyi*	3	EN	1959-1969
Diadematidae	*Diadema setosum*	1	E	2008
Echinasteridae	*Plectaster decanus*	4	E	1962
Echinidae	*Echinus sp.*	1	E	none
Echinometridae	*Heliocidaris erythrogramma*	56	EN	1895-2001
Echinometridae	*Heliocidaris tuberculata*	6	E	none
Echinometridae	*Heterocentrotus mammillatus*	1	C	1926
Euryalidae	*Astroceras pleiades*	2	E	none
Fibulariidae	*Fibularia oblonga*	1	E	none
Goniasteridae	*Pentagonaster dubeni*	5	EN	1962
Gorgonocephalidae	*Astrosierra amblyconus*	3	E	none
Holothuriidae	*Holothuria sp.*	1	E	1951
Laganidae	*Laganum depressum*	1	E	none
Laganidae	*Peronella peronii*	6	E	none
Loveniidae	*Echinocardium australe*	9	E	1887-1895
Loveniidae	*Echinocardium cordatum*	11	ECN	1901-2001
Ophiacanthidae	*Ophiacantha heterotyla*	1	E	none
Ophiactidae	*Ophiactis resiliens*	27	E	1906-1981
Ophiactidae	*Ophiactis savignyi*	5	EN	1964
Ophidiasteridae	*Fromia polypora*	1	E	1978
Ophidiasteridae	*Ophidiaster confertus*	1	E	1998
Ophiocomidae	*Clarkcoma bollonsi*	2	E	none
Ophiocomidae	*Clarkcoma canaliculata*	2	E	none
Ophiocomidae	*Clarkcoma pulchra*	19	EC	1910-1960
Ophiocomidae	*Ophiocoma dentata*	1	E	none
Ophiodermatidae	*Ophiarachnella ramsayi*	65	E	1910-1977
Ophiodermatidae	*Ophiopeza cylindrica*	2	E	none
Ophiodermatidae	*Ophiopsammus assimilis*	4	E	none
Ophiomyxidae	*Ophiomyxa australis*	4	E	none
Ophionereididae	*Ophionereis australis*	1	E	none
Ophionereididae	*Ophionereis schayeri*	37	EN	1909-1982
Ophiotrichidae	*Macrophiothrix lampra*	1	E	1967
Ophiotrichidae	*Ophiothela danae*	4	E	1964
Ophiotrichidae	*Ophiothrix caespitosa*	16	EN	1906-1981
Ophiotrichidae	*Ophiothrix ciliaris*	6	E	1930-1981
Ophiotrichidae	*Ophiothrix spongicola*	23	ECN	1922-1981
Ophiuridae	*Ophiocrossota multispina*	4	E	none
Ophiuridae	*Ophiolepis superba*	1	E	none
Ophiuridae	*Ophiura kinbergi*	6	E	1923
Oreasteridae	*Anthenea sidneyensis*	26	ECN	1965-1981
Oreasteridae	*Gymnanthenea sp.*	1	E	1976
Oreasteridae	*Nectria ocellata*	3	E	1962-1964
Oreasteridae	*Nectriaster monacanthus*	1	E	1964
Phyllophoridae	*Stolus buccalis*	8	E	none
Phyllophoridae	*Thyone okeni*	3	E	1968-1977
Psolidae	*Psolidium nigrescens*	4	ECN	1911-1981
Psolidae	*Psolus squamatus*	2	EC	none
Ptilometridae	*Ptilometra australis*	7	E	1912-1973
Schizasteridae	*Protenaster australis*	1	E	none
Schizasteridae	*Schizaster (Ova) portjacksonensis*	2	E	none
Sclerodactylidae	*Cladolabes perspicillum*	25	EN	1887-1981
Spatangidae	*Maretia planulata*	3	E	1952
Stichopodidae	*Australostichopus mollis*	1	E	1983
Stomopneustidae	*Stomopneustes sp.*	1	E	none
Synaptidae	*Leptosynapta dolabrifera*	6	E	1977
Temnopleuridae	*Amblypneustes pachistus*	1	E	none
Temnopleuridae	*Amblypneustes pulchellus*	3	E	none
Temnopleuridae	*Holopneustes inflatus*	6	E	2001
Temnopleuridae	*Holopneustes purpurascens*	12	EN	1887
Temnopleuridae	*Salmacis belli*	2	E	1959-1963
Temnopleuridae	*Salmacis virgulata*	1	E	none
Temnopleuridae	*Temnopleurus alexandri*	41	E	1966
Toxopneustidae	*Pseudoboletia indiana*	10	E	1948-1981
Toxopneustidae	*Toxopneustes pileolus*	3	E	1966-1999
Toxopneustidae	*Tripneustes angulosus*	4	E	none
Toxopneustidae	*Tripneustes gratilla*	13	E	1958-1999

Molluscs

Family	Scientifc name	# Records	Regions	Years
Acanthochitonidae	*Acanthochitona coxi*	3	EN	1897-1925
Acanthochitonidae	*Acanthochitona granostriata*	11	EN	1896-1969
Acanthochitonidae	*Acanthochitona kimberi*	4	E	1899-1953
Acanthochitonidae	*Acanthochitona pilsbryi*	10	E	1889-1972
Acanthochitonidae	*Acanthochitona retrojecta*	17	EN	1865-1976
Acanthochitonidae	*Craspedochiton variabilis*	4	E	1925-1953
Acanthochitonidae	*Leptoplax wilsoni*	1	E	1864
Acanthochitonidae	*Notoplax costata*	1	E	1964
Acanthochitonidae	*Notoplax crocodila*	3	E	1901-1925
Acteonidae	*Maxacteon fabreanus*	1	E	1928
Acteonidae	*Maxacteon roseus*	3	EN	1886-1928
Acteonidae	*Pupa coccinata*	4	E	1888-1928
Acteonidae	*Pupa fumata*	32	ECN	1865-2001
Acteonidae	*Pupa nivea*	11	EN	1865-1972
Acteonidae	*Pupa tragulata*	1	E	1961
Aegiretidae	*Aegires punctilucens*	1	E	1978
Aglajidae	*Melanochlamys sp.*	1	N	1978
Aglajidae	*Philinopsis cyanea*	1	E	1977
Akeridae	*Akera soluta*	11	ECN	1877-1980
Amathinidae	*Amathina violacea*	8	EN	1877-1975
Amathinidae	*Leucotina concinna*	30	EN	1865-1985
Amathinidae	*Leucotina micra*	4	EN	1879-1976
Amphibolidae	*Salinator fragilis*	4	ECNW	1911-1992
Anabathridae	*Anabathron lene*	7	EN	1878-2002
Anabathridae	*Anabathron contabulatum*	10	EN	1865-1969
Anabathridae	*Anabathron luteofuscus*	14	EN	1878-2009
Anabathridae	*Anabathron pluteus*	3	E	1879-1976
Anabathridae	*Badepigrus badius*	5	EN	1868-1967
Anabathridae	*Badepigrus protractus*	6	EN	1868-1967
Anabathridae	*Badepigrus pupoideus*	5	EN	1905-1961
Anabathridae	*Microdryas iravadioides*	4	E	1881-1976
Anabathridae	*Pisinna albizona*	22	EN	1877-1998
Anabathridae	*Pisinna approxima*	9	EN	1865-1967
Anabathridae	*Pisinna castella*	12	EN	1865-1967
Anabathridae	*Pisinna frauenfeldi*	7	EN	1895-1967
Anabathridae	*Pisinna kershawi*	8	EN	1877-1967
Anabathridae	*Pisinna nitida*	4	EN	1911-1967
Anabathridae	*Pisinna oblata*	9	EN	1879-1967
Anabathridae	*Pisinna olivacea*	27	EN	1865-2009
Anabathridae	*Pisinna salebrosa*	13	EN	1865-1968
Anabathridae	*Pisinna vincula*	12	EN	1865-1968
Anomiidae	*Anomia trigonopsis*	39	ECNW	1900-1997
Anomiidae	*Monia zelandica*	11	EN	1864-1994
Aplysiidae	*Aplysia dactylomela*	7	EN	1895-2000
Aplysiidae	*Aplysia extraordinaria*	6	ECN	1909-1980
Aplysiidae	*Aplysia juliana*	9	ECN	1956-1979
Aplysiidae	*Aplysia parvula*	2	E	1932-1982
Aplysiidae	*Aplysia sydneyensis*	1	E	1979
Aplysiidae	*Bursatella leachi*	5	EW	1893-1979
Aplysiidae	*Dolabella auricularia*	13	EN	1877-1997
Aplysiidae	*Dolabrifera brazieri*	3	E	1893-1950
Aplysiidae	*Phyllaplysia sp.*	2	E	1979-2001
Architectonicidae	*Adelphotectonica reevei*	10	EN	1877-1957
Architectonicidae	*Architectonica grandiosa*	5	E	1949-1957
Architectonicidae	*Architectonica perdix*	1	E	1978
Architectonicidae	*Architectonica perspectiva*	1	E	1928
Architectonicidae	*Heliacus enoshimensis*	1	E	1877
Architectonicidae	*Heliacus implexus*	3	EN	1879-1928
Architectonicidae	*Heliacus ponderi*	4	EN	1868-1980
Architectonicidae	*Philippia lutea*	5	EN	1877-1966
Architectonicidae	*Pseudotorinia delectabilis*	3	EN	1899-1980
Architectonicidae	*Pseudotorinia laseronorum*	1	E	1936
Architectonicidae	*Psilaxis oxytropis*	7	EN	1928-1969
Architectonicidae	*Psilaxis radiatus*	3	EN	1928-1980
Arcidae	*Anadara granosa*	1	N	1957
Arcidae	*Anadara trapezia*	23	ECN	1890-2011
Arcidae	*Arca ventricosa*	1	E	1902
Arcidae	*Barbatia botanica*	5	EN	1889-1957
Arcidae	*Barbatia foliata*	1	E	1967

Family	Scientifc name	# Records	Regions	Years
Arcidae	*Barbatia parvivillosa*	1	E	1970
Arcidae	*Barbatia pistachia*	17	EN	1886-1972
Arcidae	*Barbatia sp.*	7	EN	1879-1980
Arminidae	*Armina cygnea*	5	E	1888-1977
Arminidae	*Armina sp.*	1	E	1977
Assimineidae	*Cryptassiminea buccinoides*	3	CN	1963-1985
Assimineidae	*Cryptassiminea tasmanica*	8	CN	1905-1997
Assimineidae	*sp.*	10	ECNW	1894-1981
Atlantidae	*Atlanta sp.*	3	N	1911-1967
Barleeidae	*Amphithalamus incidata*	30	EN	1868-2002
Barleeidae	*Amphithalamus jacksoni*	19	EN	1868-1976
Barleeidae	*Amphithalamus pyramis*	5	EN	1879-1972
Batillariidae	*Velacumantus australis*	8	EC	1928-2003
Batillariidae	*Pyrazus ebeninus*	7	ECN	1877-1998
Batillariidae	*Zeacumantus subcarinatus**	16	ECN	1950-2003
Borsoniidae	*Filodrillia tricarinata*	1	E	1877
Borsoniidae	*Tomopleura subtilinea*	4	E	1879-1948
Buccinidae	*Cantharus pulcher*	1	E	1928
Buccinidae	*Colubraria castanea*	1	E	1982
Buccinidae	*Cominella eburnea*	19	EN	1877-1971
Buccinidae	*Engina australis*	22	EN	1877-1985
Buccinidae	*Fascinus typicus*	1	E	1948
Buccinidae	*Fusus bednalli*	1	N	1902
Buccinidae	*Fusus brazieri*	2	EN	1911-1970
Buccinidae	*Fusus mestayerae*	1	N	1902
Buccinidae	*Fusus schoutanicus*	2	E	1950-1957
Buccinidae	*Phos senticosus*	1	E	1931
Buccinidae	*Pisania fasciculata*	1	C	1900
Buccinidae	*Pisania gracilis*	18	EN	1877-1968
Bullidae	*Bulla orientalis*	1	E	1928
Bullidae	*Bulla quoyii*	34	EN	1865-1977
Bullinidae	*Bullina lineata*	15	EN	1866-1970
Bursidae	*Bufonaria margaritula*	2	E	1931
Bursidae	*Bursa granularis*	1	E	1928
Bursidae	*Bursa rhodostoma*	2	E	1889-1943
Bursidae	*Bursa verrucosa*	1	E	1928
Bursidae	*Tutufa bufo*	2	E	1928
Caecidae	*Caecum amputatum*	12	EN	1881-1981
Caecidae	*Caecum lilianum*	1	E	1950
Caecidae	*Parastrophia cygnicollis*	3	EN	1903-1950
Calliodentaliidae	*Calliodentalium crocinum*	1	N	1905
Calopiidae	*Calopia imitata*	9	ECN	1903-1982
Calyptraeidae	*Bostrycapulus aculeata*	2	E	2001
Calyptraeidae	*Bostrycapulus pritzkeri*	19	EN	1866-2009
Calyptraeidae	*Crepidula immersa*	9	EN	1865-1985
Calyptraeidae	*Sigapatella calyptraeformis*	24	ECN	1866-1985
Calyptraeidae	*Sigapatella hedleyi*	15	EN	1877-1976
Cancellariidae	*Cancellaria undulata*	20	EN	1877-1998
Cancellariidae	*Scalptia vinnula*	2	E	1873-1900
Cancellariidae	*Tritonoharpa coxi*	1	N	1911
Capulidae	*Icunculus torcularis*	14	EN	1865-1980
Capulidae	*Icunculus zodiacus*	5	N	1906-1967
Capulidae	*Lippistes fraterna*	1	E	1936
Capulidae	*Sirius badius*	2	EN	1900-1967
Capulidae	*Sirius cupiens*	1	E	1928
Capulidae	*Sirius idoneus*	2	E	1928-1931
Cardiidae	*Acrosterigma cygnorum*	1	E	2001
Cardiidae	*Acrosterigma kerslakae*	8	EN	1895-1957
Cardiidae	*Fulvia tenuicostata*	54	ECN	none
Cardiidae	*Nemocardium thetidis*	11	ECN	1877-1967
Cardiidae	*Vasticardium vertebratum*	3	EN	1896-1950
Carditidae	*Cardita excavata*	9	EN	1877-2001
Carditidae	*Cyclocardia dilecta*	3	E	1900-1950
Carditidae	*Venericardia amabilis*	11	EN	1895-1967
Carditidae	*Venericardia bimaculata*	11	EN	1873-1969
Cassidae	*Phalium bandatum*	1	E	1928
Cassidae	*Semicassis angasi*	1	E	1928
Cassidae	*Semicassis bisulcata*	6	E	1928-1931
Cassidae	*Semicassis labiata*	18	EN	1911-1976
Cassidae	*Semicassis pyrum*	3	E	1928-1930

Family	Scientifc name	# Records	Regions	Years
Cassidae	*Semicassis sophia*	1	E	1928
Cassidae	*Semicassis thomsoni*	4	E	1928-1929
Cavoliniidae	*Cavolinia tridentata*	1	E	1928
Cavoliniidae	*Cavolinia uncinata*	3	EN	1877-1964
Cavoliniidae	*Clio pyramidata*	1	E	1893
Cavoliniidae	*Diacavolinia longirostris*	2	E	1900-1929
Cavoliniidae	*Diacria trispinosa*	2	E	1961-1963
Cerithiidae	*Cacozeliana granaria*	56	ECN	1866-1985
Cerithiidae	*Cacozeliana icarus*	52	ECN	1865-1985
Cerithiidae	*Cerithidium reticulatum*	14	ECN	1875-1982
Cerithiidae	*Cerithium coralium*	2	C	1900
Cerithiidae	*Clypeomorus bifasciata*	1	N	1950
Cerithiidae	*Glyptozaria opulenta*	1	E	1888
Cerithiopsidae	*Ataxocerithium applenum*	1	E	1959
Cerithiopsidae	*Ataxocerithium gemmulatum*	1	E	1877
Cerithiopsidae	*Ataxocerithium serotinum*	10	EN	1877-1972
Cerithiopsidae	*Clathropsis tripilia*	1	E	1951
Cerithiopsidae	*Joculator hedleyi*	1	N	1951
Cerithiopsidae	*Notoseila tenuis*	1	N	1911
Cerithiopsidae	*Seilarex turritelliformis*	1	N	1900
Cerithiopsidae	*Socienna gregaria*	1	N	1951
Cerithiopsidae	*Socienna jacksonensis*	1	E	1951
Cerithiopsidae	*Synthopsis virgula*	1	N	1951
Cerithiopsidae	*Tubercliopsis exigua*	1	E	1948
Cerithiopsidae	*Tubercliopsis georgensis*	1	E	1948
Cerithiopsidae	*Tubercliopsis literalis*	1	N	1951
Chamidae	*Chama fibula*	9	ECN	1860-1970
Chitonidae	*Acanthopleura gaimardi*	8	E	1893-1969
Chitonidae	*Mucrosquama carnosus*	10	E	1889-1951
Chitonidae	*Onithochiton quercinus*	17	E	1864-1969
Chitonidae	*Rhyssoplax coxi*	8	E	1897-1952
Chitonidae	*Rhyssoplax jugosus*	11	E	1895-1949
Chitonidae	*Rhyssoplax translucens*	5	E	1866-1932
Chitonidae	*Rhyssoplax vauclusensis*	2	E	1908
Chitonidae	*Sypharochiton pelliserpentis*	14	EC	1893-1996
Chromodorididae	*Ceratosoma amoena*	2	E	1981
Chromodorididae	*Chromodoris collingwoodi*	2	E	1977-1979
Chromodorididae	*Chromodoris decora*	1	E	1976
Chromodorididae	*Chromodoris splendida*	2	E	1911-1981
Chromodorididae	*Chromodoris thompsoni*	2	E	1984-1989
Chromodorididae	*Glossodoris atromarginata*	1	E	1984
Chromodorididae	*Goniobranchus aureopurpurea*	3	E	1982-1993
Chromodorididae	*Goniobranchus daphne*	2	CN	1997-2003
Chromodorididae	*Hypselodoris bennetti*	6	E	1978-1982
Chromodorididae	*Hypselodoris obscura*	2	EC	1978-2001
Chromodorididae	*Mexichromis festiva*	1	E	1998
Chromodorididae	*Mexichromis macropus*	2	E	1980
Chromodorididae	*Miamira flavicostata*	1	E	1981
Chromodorididae	*Noumea haliclona*	4	EC	1981-2003
Cimidae	*Cima sp.*	3	E	1968-1982
Cimidae	*Coenaculum minutulum*	4	EN	1879-1957
Cingulopsiae	*Eatoniopsis castanea*	1	N	2009
Cingulopsidae	*Eatonina hedleyi*	2	E	1976
Cingulopsidae	*Eatonina hutchingsae*	5	EN	1879-1976
Cingulopsidae	*Eatonina rubrilabiata*	5	E	1879-1976
Cingulopsidae	*Eatoniopsis castanea*	22	EN	1879-2002
Cingulopsidae	*Eatoniopsis voorwindei*	2	EN	1879-1968
Cingulopsidae	*Pseudopisinna alvea*	1	E	1950
Cingulopsidae	*Pseudopisinna gregaria*	17	EN	1865-2002
Clathurellidae	*Etrema bicolor*	5	EN	1890-1980
Clathurellidae	*Etrema constricta*	1	E	1954
Clathurellidae	*Etrema nassoides*	5	EN	1899-1980
Clathurellidae	*Turrella letourneuxiana*	9	ECN	1877-1970
Clathurellidae	*Turrella morologus*	1	E	1980
Clathurellidae	*Turrella tenuilirata*	4	ECN	1888-1970
Clavagellidae	*Clavagella australis*	8	EN	1877-1971
Clavagellidae	*Clavagella multangularis*	7	E	1867-1908
Clavagellidae	*Humphreyia strangei*	5	E	1861-1928
Cleidothaeridae	*Cleidothaerus albidus*	10	EN	1877-2000
Columbellidae	*Aesopus australis*	5	EN	1911-1980

Family	Scientifc name	# Records	Regions	Years
Columbellidae	*Aesopus cassandra*	6	EN	1901-1967
Columbellidae	*Aesopus pallidulus*	10	EN	1879-1969
Columbellidae	*Aesopus plurisulcatus*	21	EN	1865-1980
Columbellidae	*Aesopus spiculum*	1	E	1914
Columbellidae	*Anachis atkinsoni*	71	EN	1865-1985
Columbellidae	*Anachis fulgida*	8	EN	1875-1967
Columbellidae	*Anachis lurida*	10	EN	1907-1969
Columbellidae	*Anachis smithi*	41	ECN	1865-1985
Columbellidae	*Euplica poecilla*	1	N	1969
Columbellidae	*Mitrella albina*	1	E	1877
Columbellidae	*Mitrella australis*	15	EN	1901-1985
Columbellidae	*Mitrella bicincta*	14	ECN	1964-2011
Columbellidae	*Mitrella intexta*	2	N	1911
Columbellidae	*Mitrella leucostoma*	4	EN	1911-1980
Columbellidae	*Mitrella lincolnensis*	21	EN	1875-1985
Columbellidae	*Mitrella peroniana*	37	ECN	1865-1980
Columbellidae	*Mitrella semiconvexa*	19	EN	1877-1980
Columbellidae	*Mitrella tayloriana*	17	EN	1866-1984
Columbellidae	*Parviterebra brazieri*	2	EN	1874-1969
Columbellidae	*Parviterebra trilineata*	7	EN	1929-1980
Columbellidae	*Pseudamycla dermestoidea*	16	EN	1877-1985
Columbellidae	*Pyrene scripta*	15	ECN	1877-2006
Columbellidae	*Pyrene testudinaria*	1	N	1950
Columbellidae	*Retizafra plexa*	3	E	1886-1959
Columbellidae	*Zafra almiranta*	1	E	1866
Columbellidae	*Zafra atrata*	4	EN	1866-1952
Columbellidae	*Zafra regulus*	1	E	1865
Columbellidae	*Zafra succinea*	1	N	1911
Columbellidae	*Zella beddomei*	17	EN	1866-1972
Condylocardiidae	*Austrocardiella trifoliata*	16	EN	1879-1976
Condylocardiidae	*Benthocardiella burtonae*	5	EN	1906-1957
Condylocardiidae	*Condylocardia limaeformis*	2	N	1957-1967
Condylocardiidae	*Condylocardia notoaustralis*	44	ECN	1873-2001
Condylocardiidae	*Condylocardia pectinata*	1	N	1926
Condylocardiidae	*Condylocuna projecta*	11	EN	1873-1981
Condylocardiidae	*Condylocuna tricosa*	1	N	1957
Condylocardiidae	*Cuna concentrica*	13	EN	1879-1967
Condylocardiidae	*Cuna cuneata*	3	EN	1950-1957
Condylocardiidae	*Cuna delta*	8	EC	1873-1967
Condylocardiidae	*Cuna saza*	8	EN	1891-1969
Condylocardiidae	*Cuna vitrea*	1	N	1969
Condylocardiidae	*Cunanax pisum*	5	EN	1873-1969
Condylocardiidae	*Cunanax subradiata*	1	E	1967
Condylocardiidae	*Micromeris angasi*	3	EN	1955-1967
Condylocardiidae	*Ovacuna atkinsoni*	17	EN	1881-1976
Condylocardiidae	*Saltocuna particula*	1	E	1955
Condylocardiidae	*Warrana dielasma*	6	EN	1955-1967
Condylocardiidae	*Warrana edentata*	1	E	1879
Condylocardiidae	*Warrana minuta*	7	EN	1900-1967
Conidae	*Conus anemone*	22	EN	1877-1980
Conidae	*Conus angasi*	5	EN	1877-1980
Conidae	*Conus aplustre*	7	EN	1900-1966
Conidae	*Conus chaldeus*	1	E	1958
Conidae	*Conus minnamurra*	1	E	1972
Conidae	*Conus papilliferus*	21	EN	1877-1968
Conidae	*Conus rutilus*	6	EN	1904-1980
Conorbidae	*Benthofascis biconica*	1	E	1972
Corbulidae	*Corbula smithiana*	8	ECN	1865-1969
Corbulidae	*Corbula tunicata*	16	ECN	1866-1985
Cornirostridae	*Cornirostra pellucida*	5	EN	1879-1967
Costellariidae	*Thala sp.*	1	E	1877
Costellariidae	*Vexillum obeliscus*	2	E	1928
Crassatellidae	*Eucrassatella cumingii*	2	E	1928-1967
Crassatellidae	*Talabrica fulvida*	5	EN	1911-1992
Cryptoplacidae	*Cryptoplax mystica*	13	EN	1895-1972
Cuspidariidae	*Cuspidaria brazieri*	7	E	1877-1955
Cuspidariidae	*Cuspidaria latesulcata*	7	E	none
Cuspidariidae	*Cuspidaria sp.*	3	EC	2001
Cyamiidae	*Cyamiomactra balaustina*	1	E	1955
Cyamiidae	*Cyamiomactra communis*	3	EN	1906-1967

Family	Scientifc name	# Records	Regions	Years
Cyamiidae	*Cyamiomactra mactroides*	5	EN	1906-1959
Cylichnidae	*Adamnestia arachis*	14	ECN	1865-1975
Cylichnidae	*Cylichna thetidis*	15	EN	1865-1970
Cylichnidae	*Tornatina avenaria*	1	N	1968
Cylichnidae	*Tornatina exserta*	1	N	1911
Cylichnidae	*Tornatina sp.*	1	N	1971
Cylindrobullidae	*Cylindrobulla sp.*	2	E	1900-1975
Cypraeidae	*Bistolida kieneri*	1	E	1895
Cypraeidae	*Bistolida ursellus*	1	E	1950
Cypraeidae	*Contradusta walkeri*	1	E	1928
Cypraeidae	*Cypraea sp.*	1	E	2001
Cypraeidae	*Erosaria cernica*	5	E	1928-1935
Cypraeidae	*Erosaria eburnea*	1	E	1928
Cypraeidae	*Erosaria erosa*	6	EN	1928-1962
Cypraeidae	*Erosaria helvola*	5	E	1895-1950
Cypraeidae	*Erosaria labrolineata*	7	E	1921-1944
Cypraeidae	*Erosaria miliaris*	1	E	1940
Cypraeidae	*Erronea caurica*	2	E	1929-1948
Cypraeidae	*Erronea errones*	2	E	1921-1935
Cypraeidae	*Erronea subviridis*	7	E	1928-1940
Cypraeidae	*Erronea xanthodon*	6	E	1928-2000
Cypraeidae	*Lyncina carneola*	2	E	1928-1969
Cypraeidae	*Lyncina lynx*	1	E	1928
Cypraeidae	*Lyncina vitellus*	7	E	1912-1959
Cypraeidae	*Mauritia arabica*	1	E	1955
Cypraeidae	*Melicerona listeri*	4	E	1877-1971
Cypraeidae	*Monetaria annulus*	5	E	1877-1940
Cypraeidae	*Monetaria caputserpentis*	6	E	1877-1972
Cypraeidae	*Notocypraea comptonii*	1	E	1943
Cypraeidae	*Notocypraea dissecta*	1	E	1928
Cypraeidae	*Ovatipsa chinensis*	2	E	1928-1929
Cypraeidae	*Palmadusta clandestina*	4	E	1921-1959
Cypraeidae	*Palmadusta humphreysii*	5	EN	1928-1950
Cypraeidae	*Purpuradusta fimbriata*	3	E	1929-1957
Cypraeidae	*Purpuradusta gracilis*	6	E	1877-1928
Cypraeidae	*Staphylaea staphylaea*	1	E	1928
Cypraeidae	*Talostolida teres*	3	E	1895-1928
Cystiscidae	*Cystiscus angasi*	26	EN	1866-1985
Cystiscidae	*Cystiscus craticula*	2	E	1945-1961
Cystiscidae	*Cystiscus minutissima*	1	E	1875
Cystiscidae	*Cystiscus multidentatus*	1	N	1957
Cystiscidae	*Gibberula agapeta*	1	E	1981
Cystiscidae	*Gibberula subbulbosa*	6	EN	1865-1972
Cystiscidae	*Granulina nympha*	31	EN	1878-1982
Cystiscidae	*Granulina sp.*	1	N	1967
Cystiscidae	*Pugnus parvus*	9	EN	1878-1967
Cystiscidae	*Sinezona beddomei*	1	N	1901
Dendrodorididae	*Dendrodoris denisoni*	3	CN	1997-2002
Dendrodorididae	*Dendrodoris fumata*	3	C	1994-2003
Dendrodorididae	*Doriopsilla sp.*	3	EC	2001
Dentaliidae	*Dentalium woolacottae*	5	EN	1865-1966
Dialidae	*Diala sulcifera*	26	ECN	1878-1975
Dialidae	*Paradiala sp.*	10	ECN	1865-1969
Diaphanidae	*Diaphana brazieri*	5	EN	1877-1967
Donacidae	*Donax brazieri*	3	E	1914-1972
Donacidae	*Donax deltoides*	4	EN	1888-1955
Donacidae	*Donax faba*	1	C	1888
Donacidae	*Donax veruinus*	4	EN	1902-1969
Donaldinidae	*Murchisonella anabathron*	6	EN	1907-1997
Dorididae	*Aphelodoris sp.*	1	C	2001
Dorididae	*Discodoris sp.*	3	E	1976-1979
Dorididae	*Hoplodoris nodulosa*	12	EC	1978-2002
Dorididae	*Jorunna funebris*	1	E	1991
Dorididae	*Rostanga arbutus*	1	C	2002
Dorididae	*Rostanga calumus*	1	E	1979
Dorididae	*Rostanga sp.*	1	C	2003
Drilliidae	*Paracuneus immaculatus*	4	E	1889-1980
Eatoniellidae	*Crassitoniella erratica*	5	EN	1911-1971
Eatoniellidae	*Crassitoniella flammea*	30	EN	1865-2002
Eatoniellidae	*Eatoniella atropurpurea*	26	EN	1865-2009

Family	Scientifc name	# Records	Regions	Years
Eatoniellidae	*Eatoniella galbinia*	22	EN	1865-1969
Eatoniellidae	*Eatoniella puniceolinea*	1	E	1955
Ebalidae	*Bacteridium sp.*	1	N	1967
Elachisinidae	*Dolicrossea labiata*	5	EN	1873-2000
Elachisinidae	*Elachisina sp.*	1	E	1955
Ellobiidae	*Allochroa layardi*	4	EN	1865-1911
Ellobiidae	*Cassidula granosula*	2	EN	1931-1955
Ellobiidae	*Cassidula zonata*	6	ECNW	1866-1975
Ellobiidae	*Laemodonta punctigera*	1	N	1991
Ellobiidae	*Laemodonta typica*	12	ECN	1879-1991
Ellobiidae	*Leuconopsis inermis*	6	ECN	1866-1955
Ellobiidae	*Marinula xanthostoma*	3	EN	1901-1975
Ellobiidae	*Ophicardelus ornatus*	21	ECNW	1866-1998
Ellobiidae	*Ophicardelus sulcatus*	13	ECNW	1905-1998
Ellobiidae	*Phytia myosotis* *	3	EW	1902-1992
Ellobiidae	*Pleuroloba quoyi*	22	ECNW	1866-1997
Emblandidae	*Emblanda emblematica*	7	EN	1906-1967
Epigridae	*Epigrus cylindracea*	3	EN	1900-1955
Epigridae	*Epigrus dissimilis*	15	EN	1868-1976
Epitoniidae	*Amaea xenicima*	2	EN	1953-1970
Epitoniidae	*Cycloscala hyalina*	9	EN	1900-1967
Epitoniidae	*Epitonium antisoa*	2	E	1928-1949
Epitoniidae	*Epitonium barissum*	3	E	1879-1959
Epitoniidae	*Epitonium carchedon*	1	E	1928
Epitoniidae	*Epitonium christyi*	6	EN	1900-1967
Epitoniidae	*Epitonium coretum*	5	ECN	1955-1967
Epitoniidae	*Epitonium fabia*	15	EN	1911-1967
Epitoniidae	*Epitonium helicornum*	1	E	1928
Epitoniidae	*Epitonium heloris*	1	E	1928
Epitoniidae	*Epitonium jousseaumei*	1	E	1934
Epitoniidae	*Epitonium jukesianum*	62	EN	1874-1998
Epitoniidae	*Epitonium parspeciosum*	8	EN	1866-1959
Epitoniidae	*Epitonium perplexum*	6	EN	1900-1972
Epitoniidae	*Epitonium philippinarum*	16	EN	1866-1968
Epitoniidae	*Epitonium pindasum*	1	E	1928
Epitoniidae	*Epitonium scalare*	1	E	1934
Epitoniidae	*Epitonium stigmaticum*	2	E	1950-1955
Epitoniidae	*Epitonium tacitum*	18	EN	1865-1967
Epitoniidae	*Epitonium tenellum*	8	EN	1912-2006
Epitoniidae	*Opalia apostolorum*	2	C	1864
Epitoniidae	*Opalia australis*	9	EN	1909-1970
Epitoniidae	*Opalia ballinensis*	11	EN	1912-1975
Epitoniidae	*Plastiscala magna*	3	E	1868-1959
Epitoniidae	*Plastiscala morchi*	2	E	1865-1871
Epitoniidae	*Problitora moerchi*	3	EN	1879-1980
Eulimidae	*Annulobalcis sp.*	2	EN	1911-1955
Eulimidae	*Apicalia brazieri*	2	EN	1900-1908
Eulimidae	*Apicalia sp.*	2	E	1900-1961
Eulimidae	*Charilda rosae*	7	EN	1899-1980
Eulimidae	*Curveulima commensalis*	3	EN	1888-1903
Eulimidae	*Curveulima cornuta*	6	EN	1879-1967
Eulimidae	*Eulima incidenta*	1	E	1955
Eulimidae	*Eulimitra vittata*	1	E	1954
Eulimidae	*Eulitoma castanea*	2	EN	1955
Eulimidae	*Eulitoma nitens*	2	E	1878-1954
Eulimidae	*Fusceulima jacksonensis*	12	EN	1865-1961
Eulimidae	*Hebeulima inusta*	4	EN	1902-1969
Eulimidae	*Hebeulima sp.*	6	E	1868-1961
Eulimidae	*Hebeulima tumere*	2	E	1879-1955
Eulimidae	*Hemiliostraca sobrina*	7	EN	1878-1976
Eulimidae	*Hemiliostraca sp.*	2	EN	1913-1957
Eulimidae	*Hemiliostraca waltersi*	2	E	1878-1951
Eulimidae	*Hypermastus coxi*	1	E	1911
Eulimidae	*Hypermastus mucronatus*	3	EN	1911-1954
Eulimidae	*Hypermastus sp.*	10	EN	1889-1967
Eulimidae	*Macertexta ovitesta*	1	E	1956
Eulimidae	*Melanella acicula*	1	N	1957
Eulimidae	*Melanella obtusa*	4	EN	1886-1985
Eulimidae	*Melanella proxima*	1	N	1911
Eulimidae	*Melanella sp.*	2	EN	1878-1911

Family	Scientifc name	# Records	Regions	Years
Eulimidae	*Microeulima sp.*	1	N	1899
Eulimidae	*Parvioris sp.*	1	E	1928
Eulimidae	*Scalenostoma lodderae*	4	EN	1900-1967
Eulimidae	*Sticteulima incidenta*	7	ECN	1881-1967
Eulimidae	*Sticteulima portensis*	1	E	1955
Eulimidae	*Stilapex parva*	2	E	1877-1903
Eulimidae	*Stilapex sp.*	1	E	1879
Fasciolariidae	*Fractolatirus normalis*	2	E	1864-1936
Fasciolariidae	*Fusinus colus*	1	E	1928
Fasciolariidae	*Fusinus genticus*	1	E	1930
Fasciolariidae	*Fusinus novaehollandiae*	1	E	1928
Ficidae	*Ficus subintermedia*	1	E	1931
Fissurellidae	*Amblychilepas javanicensis*	3	EN	1900-1972
Fissurellidae	*Amblychilepas nigrita*	16	EN	1900-1978
Fissurellidae	*Cosmetalepas concatenatus*	3	EN	1911-1975
Fissurellidae	*Diodora lineata*	16	EN	1877-1972
Fissurellidae	*Emarginula bajula*	6	ECN	1880-1969
Fissurellidae	*Emarginula candida*	18	EN	1890-1985
Fissurellidae	*Montfortula rugosa*	27	ECN	1866-1998
Fissurellidae	*Puncturella harrissoni*	15	EN	1879-1985
Fissurellidae	*Puncturella kesteveni*	13	EN	1878-1981
Fissurellidae	*Rixa watsoni*	5	EN	1893-1955
Fissurellidae	*Scutus antipodes*	19	EN	1866-2000
Fissurellidae	*Subzeidora devota*	4	EN	1880-1967
Fissurellidae	*Tugali parmophoidea*	29	ECN	1866-1985
Gadilidae	*Cadulus vincentianus*	28	EN	1868-1985
Gadilidae	*Gadila spretus*	8	EN	1879-1969
Galeommatidae	*Borniola filosa*	5	EN	1902-1980
Galeommatidae	*Borniola lepida*	27	EN	1879-2011
Galeommatidae	*Borniola sp.*	2	EN	1961-1967
Galeommatidae	*Parvikellia sp.*	1	N	1967
Galeommatidae	*Scintilla sp.*	2	EN	1877-1967
Galeommatidae	*Scintilla strangei*	17	EN	1864-1969
Galeommatidae	*Varotoga cryptozoica*	18	ECN	1900-2003
Galeommatidae	*Vermitexta garrardi*	12	EN	1911-1970
Galeommatidae	*Vermitexta sp.*	1	E	1955
Gastrochaenidae	*Gastrochaena sp.*	1	E	1888
Gastrodontidae	*Zonitoides arboreus*	3	EC	1996-2009
Glaucidae	*Austraeolis cacaotica*	10	EC	1908-2000
Glaucidae	*Cratena lineata*	2	E	1978
Glaucidae	*Phidiana sp.*	1	C	2001
Glaucidae	*Pteraeolidia ianthina*	2	E	1894-1981
Glauconomiidae	*Glauconome plankta*	6	ECNW	1877-1997
Glycymerididae	*Glycymeris grayana*	3	EN	1911-1928
Glycymerididae	*Glycymeris holosericus*	5	EN	1877-1956
Glycymerididae	*Glycymeris striatularis*	5	EN	1888-1911
Glycymerididae	*Tucetona gealei*	2	E	1930-1940
Goniodorididae	*Goniodoridella savignyi*	2	E	1981-1982
Goniodorididae	*Goniodoris meracula*	1	C	2001
Goniodorididae	*Goniodoris sp.*	1	C	2001
Goniodorididae	*Okenia pellucida*	2	E	1966
Goniodorididae	*Okenia plana*	1	C	1984
Gryphaeidae	*Hyotissa hyotis*	1	E	1928
Gymnodorididae	*Gymnodoris ceylonica*	1	E	1977
Haliotidae	*Haliotis brazieri*	6	EN	1866-1980
Haliotidae	*Haliotis coccoradiata*	21	EN	1877-2011
Haliotidae	*Haliotis hargravesi*	1	N	1950
Haliotidae	*Haliotis rubra*	16	EN	1877-1976
Haminoeidae	*Cylichnatys campanula*	11	ECN	1881-1985
Haminoeidae	*Haminoea sp.*	6	EN	1877-1911
Haminoeidae	*Haminoea wallisii*	1	N	2009
Haminoeidae	*Liloa brevis*	18	ECN	1879-1985
Haminoeidae	*Liloa sp.*	10	EN	1879-1974
Haminoeidae	*Limulatys reliquus*	1	E	1936
Haminoeidae	*Haminoeidae sp.*	1	N	1911
Haminoeidae	*Ventomnestia colorata*	2	E	1928-1930
Hemidonacidae	*Hemidonax dactylus*	8	EN	1912-1969
Hemidonacidae	*Hemidonax pictus*	3	E	1914-1955
Hiatellidae	*Hiatella australis*	77	ECN	none
Hiatellidae	*Panopea australis*	4	EN	1897-1967

Family	Scientifc name	# Records	Regions	Years
Hipponicidae	*Antisabia foliacea*	6	EN	1877-1980
Horaiclavidae	*Austrodrillia angasi*	9	EN	1877-1985
Horaiclavidae	*Austrodrillia beraudiana*	11	ECN	1877-1985
Horaiclavidae	*Vexitomina coxi*	6	E	1866-1955
Horaiclavidae	*Vexitomina metcalfei*	20	ECN	1877-1985
Horaiclavidae	*Vexitomina pilazona*	1	N	1980
Horaiclavidae	*Vexitomina suavis*	1	E	1948
Horaiclavidae	*Vexitomina torquata*	2	E	1928-1955
Hydatinidae	*Hydatina exigua*	1	N	1902
Hydatinidae	*Hydatina physis*	4	E	1877-1980
Hydatinidae	*Micromelo guamensis*	1	E	1951
Hydrobiidae	*Ascorhis tasmanica*	15	ECN	1886-1997
Hydrobiidae	*Tatea huonensis*	13	CNW	1950-1997
Hydrobiidae	*Tatea rufilabris*	15	ECNW	1967-1989
Idiosepiidae	*Idiosepius notoides*	1	E	1972
Idiosepiidae	*Idiosepius sp.*	9	E	1976-1999
Iravadiidae	*Iravadia subquadrata*	7	EN	1913-1968
Iravadiidae	*Nozeba topaziaca*	17	ECN	1875-1972
Iravadiidae	*Iravadiidae sp.*	7	EN	1951-1981
Ischnochitonidae	*Callistochiton antiquus*	12	EC	1864-1968
Ischnochitonidae	*Callochiton crocinus*	8	E	1895-1976
Ischnochitonidae	*Ischnochiton australis*	13	ECN	1893-1998
Ischnochitonidae	*Ischnochiton carinulatus*	1	E	1895
Ischnochitonidae	*Ischnochiton elongatus*	12	EN	1893-1971
Ischnochitonidae	*Ischnochiton examinandus*	12	E	1867-1955
Ischnochitonidae	*Ischnochiton fructicosus*	12	EN	1893-1969
Ischnochitonidae	*Ischnochiton lentiginosus*	4	EC	1895-1988
Ischnochitonidae	*Ischnochiton smaragdinus*	19	EN	1893-1988
Ischnochitonidae	*Ischnochiton variegatus*	1	E	1866
Ischnochitonidae	*Ischnochiton versicolor*	9	E	1896-1950
Ischnochitonidae	*Subterenochiton gabrieli*	8	E	1864-1900
Janthinidae	*Janthina exigua*	2	E	1877-1928
Janthinidae	*Janthina janthina*	2	E	1877-1967
Kelliidae	*Cicatella indenta*	4	EN	1950-1980
Kelliidae	*Cicatella sp.*	1	E	1948
Kelliidae	*Kellia cycladiformis*	1	N	1956
Kelliidae	*Kellia jacksoniana*	1	E	1900
Kelliidae	*Kellia rotunda*	3	EN	1864-1956
Kelliidae	*Kellia tumida*	1	E	1951
Kelliidae	*Marikellia solida*	8	EN	1864-1967
Kelliidae	*Marikellia sp.*	11	EN	1866-1972
Laevidentaliidae	*Laevidentalium erectum*	9	E	1875-1990
Laevidentaliidae	*Laevidentalium lubricatum*	2	E	1900-1928
Lasaeidae	*Melliteryx acupuncta*	11	ECN	1911-1970
Lasaeidae	*Melliteryx sp.*	8	EN	1928-1967
Lasaeidae	*Myllita calva*	2	EN	1955
Lasaeidae	*Myllita deshayesii*	1	E	1880
Lasaeidae	*Myllita gemmata*	3	E	1903-1950
Lasaeidae	*Myllita sp.*	4	EN	1950-1961
Lasaeidae	*Myllita tasmanica*	6	ECN	1879-1955
Lasaeidae	*Rochefortia sp.*	15	ECN	1928-1970
Lasaeidae	*Arthritica helmsi*	5	EC	1881-2003
Lasaeidae	*Arthritica sp.*	3	E	1886-1955
Lasaeidae	*Lasaea australis*	44	EN	1865-1984
Lasaeidae	*Lasaea sp.*	13	EC	1955-2001
Lasaeidae	*Mysella anomala*	21	ECN	1868-1969
Lasaeidae	*Mysella concentrica*	18	EN	1908-1969
Lasaeidae	*Mysella ovata*	16	EN	1878-1967
Lasaeidae	*Mysella sp.*	7	ECN	1911-1970
Lasaeidae	*Mysella vitrea*	38	EN	1879-1980
Lasaeidae	*Lasaeidae sp.*	5	ECN	1955-1970
Laternulidae	*Laternula attenuata*	1	E	1905
Laternulidae	*Laternula creccina*	10	ECN	1877-1975
Laternulidae	*Laternula marilina*	21	ECNW	1877-1997
Lepetidae	*Propilidium tasmanicum*	6	EN	1900-1969
Lepidopleuridae	*Leptochiton badius*	5	E	1940-1953
Lepidopleuridae	*Leptochiton liratus*	1	E	1900
Lepidopleuridae	*Leptochiton puppis*	4	E	1922-1940
Limacinidae	*Limacina bulimoides*	1	E	1889
Limidae	*Divarilima sydneyensis*	8	EN	1865-1955

Family	Scientifc name	# Records	Regions	Years
Limidae	*Lima lima*	34	EN	1877-2001
Limidae	*Lima nimbifer*	7	EN	1912-1972
Limidae	*Limaria orientalis*	14	EN	1888-1955
Limidae	*Limatula strangei*	42	EN	1877-2011
Lingulidae	*Lingula rostrum*	2	E	1866-1888
Liotiidae	*Munditia sp.*	1	N	1955
Litiopidae	*Alaba monile*	35	EN	1865-1985
Litiopidae	*Alaba opiniosa*	32	EN	1868-1989
Litiopidae	*Alaba sp.*	1	E	2001
Litiopidae	*Alba translucida*	46	ECN	1865-1982
Litiopidae	*Litiopa sp.*	3	EN	1906-1926
Littorinidae	*Afrolittorina acutispira*	22	EN	1889-1982
Littorinidae	*Austrolittorina unifasciata*	18	ECN	1875-1998
Littorinidae	*Bembicium auratum*	21	ECNW	1905-1997
Littorinidae	*Bembicium nanum*	20	ECN	1877-1996
Littorinidae	*Echinolittorina vidua*	1	N	1950
Littorinidae	*Laevilitorina mariae*	4	EN	1895-1967
Littorinidae	*Littoraria luteola*	12	ECNW	1911-2002
Littorinidae	*Littoraria philippiana*	1	W	1950
Littorinidae	*Nodilittorina pyramidalis*	7	EN	1877-1969
Loliginidae	*Sepioteuthis australis*	3	EC	1912-1983
Loliginidae	*Uroteuthis (Aestuariolus) noctiluca*	3	EC	1888-1977
Loliginidae	*Uroteuthis (Photololigo) chinensis*	9	ECW	1887-1975
Loliginidae	*Uroteuthis sp.*	2	EW	1972-1975
Lottiidae	*Asteracmea illibrata*	6	ECN	1875-1972
Lottiidae	*Notoacmea flammea*	9	E	1912-1977
Lottiidae	*Notoacmea petterdi*	5	EN	1877-1993
Lottiidae	*Patelloida alticostata*	17	EN	1877-2009
Lottiidae	*Patelloida latistrigata*	6	EN	1893-1985
Lottiidae	*Patelloida mimula*	15	ECN	1877-1997
Lottiidae	*Patelloida mufria*	18	EN	1911-1985
Lottiidae	*Patelloida saccharina*	1	E	1892
Lucinidae	*Anodontia omissa*	8	ECN	1877-1972
Lucinidae	*Codakia paytenorum*	1	E	1940
Lucinidae	*Codakia rugifera*	18	EN	1877-2009
Lucinidae	*Ctena bella*	4	EN	1906-1968
Lucinidae	*Divalucina cumingii*	10	EN	1877-1985
Lucinidae	*Epicodakia consettiana*	3	E	1944-1955
Lucinidae	*Monitilora ramsayi*	13	EN	1866-1972
Lucinidae	*Myrtea botanica*	18	E	1865-1969
Lucinidae	*Nevenulora hilaira*	7	EN	1908-1972
Lucinidae	*Pillucina pisidium*	18	ECN	1889-1972
Lucinidae	*Pillucina sp.*	1	N	1955
Lucinidae	*Wallucina assimilis*	38	ECN	1874-1985
Mactridae	*Lutraria rhynchaea*	12	EN	1865-1976
Mactridae	*Mactra antecedens*	10	EN	1877-1985
Mactridae	*Mactra eximia*	2	E	1900-1928
Mactridae	*Mactra jacksonensis*	7	EN	1877-1970
Mactridae	*Mactra parkesiana*	4	EN	1902-1967
Mactridae	*Mactra pusilla*	11	EN	1877-1985
Mactridae	*Mactra rufescens*	2	E	1914-1929
Mactridae	*Raeta pellicula*	3	EN	1899-1967
Mactridae	*Spisula trigonella*	23	ECNW	1877-2001
Mactridae	*Zenatina victoriae*	1	N	1902
Magilidae	*Liniaxis sertata*	2	EN	1966-1969
Magilidae	*Muricidae sertata*	1	E	1928
Malleidae	*Malleus albus*	1	E	1921
Malleidae	*Parimalleus cursator*	12	EN	1888-1957
Malleidae	*Vulsella vulsella*	11	EN	1877-1970
Mangeliidae	*Antiguraleus serpentis*	1	E	1948
Mangeliidae	*Apispiralia albocincta*	1	N	1911
Mangeliidae	*Apitua delicatula*	1	E	1954
Mangeliidae	*Guraleus brazieri*	4	EN	1889-1954
Mangeliidae	*Guraleus fascinus*	1	N	1911
Mangeliidae	*Guraleus flavescens*	3	ECN	1879-1963
Mangeliidae	*Guraleus pictus*	11	EN	1869-1980
Mangeliidae	*Heterocithara bilineata*	9	ECN	1868-1965
Mangeliidae	*Macteola anomala*	5	EN	1889-1931
Mangeliidae	*Marita elongata*	1	E	1954
Mangeliidae	*Pseudoraphitoma pyramidula*	1	E	1948

Family	Scientifc name	# Records	Regions	Years
Mangeliidae	*Pseudoraphitoma sp.*	6	E	1865-1967
Mangeliidae	*Pseudoraphitoma transitans*	1	E	1959
Marginellidae	*Alaginella ochracea*	20	ECN	1877-1969
Marginellidae	*Austroginella johnstoni*	2	EN	1911-1955
Marginellidae	*Austroginella muscaria*	3	EN	1877-1967
Marginellidae	*Austroginella tasmanica*	3	E	1929-1955
Marginellidae	*Balanetta whani*	2	E	1948-1955
Marginellidae	*Dentimargo kemblensis*	1	E	1928
Marginellidae	*Dentimargo mayii*	1	E	1880
Marginellidae	*Hydroginella haswelli*	1	E	1969
Marginellidae	*Mesoginella inconspicua*	15	EN	1866-1972
Marginellidae	*Mesoginella olivella*	20	EN	1865-1985
Marginellidae	*Mesoginella pygmaeoides*	4	EN	1952-1972
Marginellidae	*Mesoginella sinapi*	10	EN	1866-1976
Marginellidae	*Mesoginella strangei*	8	EN	1868-1961
Marginellidae	*Mesoginella translucida*	14	EN	1865-1972
Marginellidae	*Mesoginella turbinata*	18	EN	1866-1972
Marginellidae	*Mesoginella victoriae*	13	EN	1873-1967
Marginellidae	*Ovaginella ovulum*	7	EN	1865-1969
Marginellidae	*Serrata mustelina*	11	EN	1868-1969
Mathildidae	*Eucharilda elegantula*	6	ECN	1868-1943
Mesodesmatidae	*Paphies cuneata*	5	EN	1877-1912
Mesodesmatidae	*Paphies elongata*	6	EN	1877-1976
Mesodesmatidae	*Paphies erycinaea*	1	N	1900
Mitridae	*Domiporta sp.*	1	C	2001
Mitridae	*Domiporta strangei*	22	EN	1866-1980
Mitridae	*Mitra badia*	23	EN	1864-1985
Mitridae	*Mitra carbonaria*	16	EN	1877-1976
Mitridae	*Mitra cookii*	13	EN	1866-1980
Mitridae	*Mitra ferruginea*	1	E	1928
Mitridae	*Mitra glabra*	3	E	1935-1940
Mitridae	*Mitra solida*	10	EN	1877-1959
Mitridae	*Mitra sp.*	2	E	2001
Mitromorphidae	*Scrinium brazieri*	1	E	1900
Mopaliidae	*Plaxiphora albida*	6	EN	1895-1911
Motacutidae	*Fronsella reversa*	4	EN	1929-1983
Motacutidae	*Fronsella sp.*	10	EN	1955-1976
Motacutidae	*Montacuta nitens*	1	N	1967
Motacutidae	*Montacuta sp.*	11	EN	1879-1969
Muricidae	*Agnewia tritoniformis*	28	EN	1866-1972
Muricidae	*Bedeva hanleyi*	63	ECN	1877-1998
Muricidae	*Benthoxystus petterdi*	1	N	1902
Muricidae	*Chicoreus denudatus*	54	EN	1865-1984
Muricidae	*Chicoreus territus*	1	E	1968
Muricidae	*Cronia aurantiaca*	12	EN	1877-1984
Muricidae	*Cronia pseudamygdala*	1	E	1928
Muricidae	*Dicathais orbita*	40	EN	1877-2009
Muricidae	*Ergalatax contracta*	5	EN	1864-1985
Muricidae	*Ergalatax recurrens*	1	E	1928
Muricidae	*Favartia brazieri*	5	EN	1890-1961
Muricidae	*Gemixystus laminatus*	3	EN	1866-1969
Muricidae	*Lepsiella reticulata*	1	E	2001
Muricidae	*Lepsiella vinosa*	1	E	1968
Muricidae	*Litozamia brazieri*	1	N	1911
Muricidae	*Litozamia rudolphi*	7	EN	1879-1912
Muricidae	*Maculotriton serriale*	1	E	1896
Muricidae	*Mipus arbutum*	6	E	1914-1975
Muricidae	*Mipus nodosus*	3	EN	1906-1950
Muricidae	*Morula marginalba*	20	ECN	1877-1970
Muricidae	*Morula nodulifera*	8	EN	1911-2006
Muricidae	*Phycothais botanica*	3	E	1928-1980
Muricidae	*Phycothais reticulata*	16	EN	1877-1985
Muricidae	*Phyllocoma speciosa*	14	EN	1877-1976
Muricidae	*Pinaxia coronata*	1	E	1928
Muricidae	*Prototyphis angasi*	51	EN	1866-1976
Muricidae	*Pterynotus duffusi*	8	EN	1889-1970
Muricidae	*Pterynotus patagiatus*	1	E	1873
Muricidae	*Siphonochelus syringianus*	4	E	1888-1970
Muricidae	*Typhis philippensis*	1	E	1969
Muricidae	*Vexilla vexillum*	1	N	1911

APPENDIX I

Family	Scientifc name	# Records	Regions	Years
Myidae	*Cryptomya elliptica*	9	ECN	1868-1970
Myidae	*Tugonia inopinata*	2	E	1928-1955
Myochamidae	*Myadora brevis*	7	ECN	1900-1975
Myochamidae	*Myadora complexa*	3	E	1877-1967
Myochamidae	*Myadora crassa*	5	EN	1877-1970
Myochamidae	*Myadora pandoriformis*	13	EN	1877-1970
Myochamidae	*Myochama anomoides*	10	EN	1874-1970
Myochamidae	*Myochama strangei*	6	EN	1866-1911
Mytilidae	*Amygdalum beddomei*	6	EC	1879-1969
Mytilidae	*Amygdalum glaberrimum*	6	ECN	1864-1970
Mytilidae	*Gregariella splendidus*	1	N	1902
Mytilidae	*Modiolus albicostus*	2	N	1902-1959
Mytilidae	*Modiolus auriculatus*	4	EC	1877-2001
Mytilidae	*Modiolus peronianus*	7	EN	1877-1980
Mytilidae	*Musculus alganus*	3	E	1955-1981
Mytilidae	*Musculus cumingianus*	8	EN	1895-1968
Mytilidae	*Musculus sp.*	3	E	2001
Mytilidae	*Musculus varicosus*	5	EN	1943-1967
Mytilidae	*Mytilus galloprovincialis**	49	ECN	1905-2001
Mytilidae	*Mytilus sp.*	9	EC	2001
Mytilidae	*Trichomusculus barbatus*	17	EN	1878-2001
Mytilidae	*Trichomya hirsuta*	26	ECN	1923-1997
Mytilidae	*Xenostrobus securis*	12	ECNW	1888-1998
Nacellidae	*Cellana tramoserica*	11	EN	1900-1974
Nassariidae	*Cyllene lactea*	7	EN	1879-1972
Nassariidae	*Cyllene royana*	2	N	1908-1972
Nassariidae	*Nassarius burchardi*	40	ECN	1877-1999
Nassariidae	*Nassarius glans particeps*	23	EN	1877-1985
Nassariidae	*Nassarius jonasii*	27	ECN	1877-1999
Nassariidae	*Nassarius nigellus*	65	ECN	1865-1976
Nassariidae	*Nassarius pauperatus*	2	E	1950-1974
Nassariidae	*Nassarius pauperus*	44	ECN	1865-1985
Nassariidae	*Nassarius splendidulus*	1	E	1928
Naticidae	*Conuber conicum*	21	ECN	1877-1997
Naticidae	*Conuber melastomum*	10	EN	1877-1976
Naticidae	*Conuber sordidus*	23	ECN	1877-1997
Naticidae	*Eunaticina papilla*	17	ECN	1875-1994
Naticidae	*Eunaticina umbilicata*	2	N	1912-1970
Naticidae	*Gennaeosinum intercisum*	2	E	1928-1930
Naticidae	*Glyphepithema alapapilionis*	1	E	1970
Naticidae	*Mammilla fibrosa*	1	E	1928
Naticidae	*Mammilla melanostoma*	1	E	1970
Naticidae	*Mammilla sebae*	1	E	1931
Naticidae	*Mammilla simiae*	8	EN	1900-1959
Naticidae	*Natica buriasiensis*	2	E	1928-1959
Naticidae	*Naticarius colliei*	1	E	1928
Naticidae	*Naticarius onca*	1	E	1880
Naticidae	*Notocochlis cernica*	4	EN	1911-1969
Naticidae	*Notocochlis gualtieriana*	18	EN	1869-1972
Naticidae	*Notocochlis subcostata*	9	ECN	1886-1963
Naticidae	*Polinices didyma*	32	EN	1865-1994
Naticidae	*Polinices incei*	1	E	1928
Naticidae	*Sinum incisus*	1	E	1928
Naticidae	*Sinum zonale*	5	E	1877-1970
Naticidae	*Tanea sagittata*	17	ECN	1865-1975
Naticidae	*Tasmatica schoutanica*	7	E	1879-1957
Neoleptonidae	*Micropolia concentrica*	1	E	1953
Neoleptonidae	*Micropolia depressa*	1	E	1948
Neoleptonidae	*Micropolia jacksonensis*	1	E	1948
Neoleptonidae	*Neolepton balaustina*	22	ECN	1873-1980
Neoleptonidae	*Neolepton ovalis*	32	EN	1865-1984
Neoleptonidae	*Neolepton sp.*	4	EN	2001-2004
Neritidae	*Clithon oualaniensis*	1	E	1928
Neritidae	*Nerita albicilla*	2	E	1877-1965
Neritidae	*Nerita atramentosa*	1	N	1995
Neritidae	*Nerita melanotragus*	18	EN	1877-1998
Neritidae	*Smaragdia souverbiana*	28	ECN	1865-1998
Neritidae	*Smaragdia tragena*	8	E	1865-1969
Noetiidae	*Arcopsis afra*	3	E	1948-1960
Nuculanidae	*Nuculana dohrni*	8	EN	1877-1943

Family	Scientifc name	# Records	Regions	Years
Nuculanidae	*Nuculana ensicula*	2	EN	1960-1980
Nuculidae	*Ennucula obliqua*	13	EC	1866-1963
Nuculidae	*Nucula brongersmai*	5	EN	1865-1969
Nuculidae	*Nucula mayi*	1	E	1886
Nuculidae	*Nucula pusilla*	10	EN	1873-1969
Nuculidae	*Nucula revei*	1	N	1967
Nuculidae	*Nucula sp.*	1	N	1967
Nuculidae	*Pronucula hedleyi*	1	E	1955
Octopodidae	*Hapalochlaena fasciata*	15	ECN	1879-1989
Octopodidae	*Octopus australis*	5	EC	1888-1987
Octopodidae	*Octopus sp.*	1	N	1966
Octopodidae	*Octopus tetricus*	5	ECN	1882-1982
Ocythoidae	*Ocythoe tuberculata*	1	W	1976
Olividae	*Alcospira marginata*	4	E	1928-1975
Olividae	*Alcospira oblonga*	13	EN	1875-1972
Olividae	*Alcospira petterdi*	2	E	1950-1972
Olividae	*Ancillista velesiana*	1	E	1957
Olividae	*Belloliva exquisita*	1	E	1890
Olividae	*Belloliva leucozona*	7	EN	1911-1976
Olividae	*Belloliva triticea*	18	EN	1875-1994
Olividae	*Cupidoliva nympha*	30	EN	1865-1974
Omalogyridae	*Ammonicera sp.*	2	EN	2001-2002
Omalogyridae	*Helisalia liliputia*	2	EN	1948-1954
Omalogyridae	*Helisalia sucina*	1	E	1948
Omalogyridae	*Omalogyra sp.*	1	N	2002
Omalogyridae	*Omalogyridae sp.*	1	N	1911
Onchidiidae	*Onchidella patelloides*	3	EN	1898-1930
Onchidiidae	*Onchidium sp.*	8	ENW	1888-1970
Onchidiidae	*Paraoncidium chameleon*	6	ECNW	1886-1981
Onchidiidae	*Peronia tumidum*	1	N	1967
Orbitestellidae	*Microdiscula charopa*	3	E	1886-1984
Orbitestellidae	*Orbitestella decorata*	4	E	1878-1981
Orbitestellidae	*Orbitestella iredalei*	1	N	1967
Orbitestellidae	*Orbitestella sp.*	3	E	1955-1984
Ostreidae	*Ostrea edulis*	1	N	1951
Ostreidae	*Dendostrea folium*	3	E	1878-1950
Ostreidae	*Dendostrea sandvichensis*	2	EN	1864-1976
Ostreidae	*Ostrea angasi*	16	ECN	1866-1980
Ostreidae	*Ostrea sp.*	3	EC	2001
Ostreidae	*Ostreola virescens*	4	EN	1900-2005
Ostreidae	*Saccostrea glomerata*	25	ECN	1888-2005
Ostreidae	*Saccostrea sp.*	1	E	2001
Ostreidae	*Ostreidae sp.*	4	EC	1982-2001
Ovulidae	*Globovula cavanaghi*	3	E	1928
Ovulidae	*Prionovolva brevis*	2	E	1928-1935
Ovulidae	*Prosimnia semperi*	1	E	1900
Ovulidae	*Volva volva*	1	E	1928
Oxynoidae	*Oxynoe viridis*	2	E	2001
Pandoridae	*Pandora aversus*	1	E	1948
Pandoridae	*Pandora elongatus*	1	N	1967
Patellidae	*Scutellastra chapmani*	12	EN	1866-1985
Patellidae	*Scutellastra peronii*	5	EN	1928-1972
Pectinidae	*Amusium balloti*	4	E	1877-1950
Pectinidae	*Decatopecten strangei*	1	E	1930
Pectinidae	*Mesopeplum fenestratum*	1	C	1900
Pectinidae	*Mimachlamys asperrima*	8	E	1865-1957
Pectinidae	*Pecten fumatus*	26	ECN	1877-1974
Pectinidae	*Scaeochlamys livida*	43	ECN	1866-1976
Pectinidae	*Semipallium aktinos*	3	E	1886-1975
Pendromidae	*Pendromidae sp.*	1	N	1967
Periplomatidae	*Periploma angasi*	1	E	1877
Petricolidae	*Petricola rubiginosa*	1	E	1957
Phallomedusidae	*Phallomedusa solida*	25	ECNW	1893-2004
Pharidae	*Ensiculus cultellus*	4	EN	1888-1974
Phenacolepadidae	*Cinnalepeta cinnamomea*	12	ECN	1877-1997
Phenacolepadidae	*Phenacolepas cytherae*	1	N	1957
Philinidae	*Philine angasi*	5	EN	1890-1959
Philinidae	*Philine orca*	1	N	1995
Philinidae	*Philine sp.*	8	ECN	1911-2001
Philinidae	*Philine trapezia*	3	EC	1902-1963

Family	Scientifc name	# Records	Regions	Years
Philobryidae	*Cosa parallelogramma*	3	EN	1906-1967
Philobryidae	*Cosa stephensensis*	1	E	1955
Philobryidae	*Cosa tatei*	9	EN	1900-1969
Philobryidae	*Lissarca picta*	4	EN	1878-1899
Philobryidae	*Notomytilus rubra*	6	E	1928-1961
Philobryidae	*Philobryidae sp.*	3	EN	1955-1967
Pholadidae	*Barnea obturamentum*	3	EN	1871-1970
Pholadidae	*Martesia striata*	8	EN	1899-1971
Pholadidae	*Pholas australasiae*	2	E	1904-1928
Pinnidae	*Pinna bicolor*	9	EN	1910-1979
Pinnidae	*Pinna deltodes*	1	E	1919
Planaxidae	*Couthouyia gracilis*	1	E	1893
Planaxidae	*Fossarus sydneyensis*	7	EN	1900-1959
Planaxidae	*Hinea brasiliana*	6	EN	1877-1970
Planaxidae	*Planaxidae sp.*	1	N	1973
Plesiotrochidae	*Plesiotrochus crinitus*	1	E	1900
Pleurobranchidae	*Berthellina citrina*	1	E	2000
Pleurobranchidae	*Pleurobranchus hilli*	1	E	1892
Plicatulidae	*Plicatula chinensis*	3	E	1888-1928
Polyceridae	*Kaloplocamus sp.*	3	E	1977-1979
Polyceridae	*Limacia ornata*	1	E	1982
Polyceridae	*Limacia sp.*	1	E	1977
Polyceridae	*Paliolla cooki*	1	E	1989
Polyceridae	*Plocamopherus imperialis*	16	ECN	1888-2000
Polyceridae	*Polycera capensis*	4	EN	1927-1980
Polyceridae	*Polycera hedgpethi**	2	CN	1982-1999
Poromyidae	*Poromya sp.*	1	C	2001
Propeamussiidae	*Cyclochlamys favus*	14	ECN	1875-1967
Psammobiidae	*Gari lessoni*	12	EC	1877-1969
Psammobiidae	*Gari livida*	10	EN	1912-1957
Psammobiidae	*Gari modesta*	32	ECN	1866-1976
Psammobiidae	*Heteroglypta contraria*	1	N	1950
Psammobiidae	*Soletellina alba*	18	ECN	1877-1998
Psammobiidae	*Soletellina biradiata*	7	EN	1877-1980
Psammobiidae	*Psammobiidae sp.*	1	C	2011
Pseudolividae	*Zemira australis*	9	E	1865-1930
Pseudomelatomidae	*Epidirona hedleyi*	11	EN	1866-1979
Pseudomelatomidae	*Splendrillia harpularia*	1	E	1900
Pteriidae	*Electroma georgiana*	5	EN	1878-1967
Pteriidae	*Electroma physoides*	2	E	1894-1980
Pteriidae	*Pinctada albina*	2	E	1877-1948
Pteriidae	*Pinctada imbricata*	3	E	1914-1958
Pteriidae	*Pinctada maxima*	1	E	1877
Pteriidae	*Pinctada nigra*	1	E	1926
Pulsellidae	*Compressidens platyceras*	14	ECN	1865-1985
Purpuradusta	*Purpuradusta fimbriata*	1	E	1983
Pyramidellidae	*Agatha angusta*	5	EN	1906-1955
Pyramidellidae	*Agatha australis*	12	EN	1877-1969
Pyramidellidae	*Agatha convexa*	1	N	1911
Pyramidellidae	*Agatha manifesta*	9	EN	1875-1985
Pyramidellidae	*Agatha petterdi*	1	E	1911
Pyramidellidae	*Austrorissopsis consobrina*	1	N	1950
Pyramidellidae	*Bacteridella hasta*	5	EN	1879-1957
Pyramidellidae	*Bacteridella subtilis*	1	N	1967
Pyramidellidae	*Chrysallida bisculpta*	1	N	1911
Pyramidellidae	*Chrysallida lucida*	9	EN	1879-1982
Pyramidellidae	*Chrysallida sp.*	8	EN	1879-1982
Pyramidellidae	*Cinctiuga diaphana*	11	EN	1865-1967
Pyramidellidae	*Cingulina spina*	10	ECN	1877-1976
Pyramidellidae	*Egilina mariellaeformis*	1	E	1879
Pyramidellidae	*Elodiamea vincula*	2	E	1948
Pyramidellidae	*Eulimella hasta*	1	E	1908
Pyramidellidae	*Herewardia kesteveni*	1	E	1904
Pyramidellidae	*Herviera gliriella*	1	E	1948
Pyramidellidae	*Hinemoa ligata*	45	EN	1865-2002
Pyramidellidae	*Hinemoa montuosa*	2	E	1955-1967
Pyramidellidae	*Hinemoa suprasculpta*	17	EN	1865-1998
Pyramidellidae	*Koloonella minutissima*	1	E	1948
Pyramidellidae	*Koloonella moniliformis*	5	EN	1886-1967
Pyramidellidae	*Koloonella sp.*	1	E	1879

Family	Scientifc name	# Records	Regions	Years
Pyramidellidae	*Latavia pulchra*	20	EN	1888-1998
Pyramidellidae	*Megastomia angasi*	4	E	1889-1955
Pyramidellidae	*Megastomia laevis*	1	E	1951
Pyramidellidae	*Megastomia pyramidata*	5	EN	1951-1982
Pyramidellidae	*Megastomia simplex*	27	ECN	1865-1985
Pyramidellidae	*Megastomia sp.*	1	C	1963
Pyramidellidae	*Megastomia subcarina*	16	ECN	1868-1985
Pyramidellidae	*Numaegilina henni*	13	EN	1865-1985
Pyramidellidae	*Odostomella opaca*	2	N	1906
Pyramidellidae	*Odostomia angasi*	1	C	1963
Pyramidellidae	*Odostomia deplexa*	1	E	1969
Pyramidellidae	*Odostomia sp.*	24	EN	1878-1982
Pyramidellidae	*Odostomia tomacula*	2	E	1911-1913
Pyramidellidae	*Odostomia tumerea*	1	N	1957
Pyramidellidae	*Ondina sp.*	8	E	1879-1976
Pyramidellidae	*Ondina stricta*	11	EN	1879-1976
Pyramidellidae	*Oopyramis sp.*	1	E	1955
Pyramidellidae	*Oscilla migma*	1	E	1950
Pyramidellidae	*Paracingulina brazieri*	17	ECN	1878-1982
Pyramidellidae	*Paramormula kitcheni*	2	E	1951
Pyramidellidae	*Paramormula varicifera*	16	EN	1865-1969
Pyramidellidae	*Parthenina indistincta*	15	EN	1893-1998
Pyramidellidae	*Parthenina mayii*	2	E	1961-1969
Pyramidellidae	*Pseudorissoina sp.*	1	E	1900
Pyramidellidae	*Pseudoskenella depressa*	31	EN	1894-1998
Pyramidellidae	*Puposyrnola jacksonensis*	4	E	1900-1955
Pyramidellidae	*Pyramidella sp.*	1	C	1997
Pyramidellidae	*Pyrgiscilla gravicosta*	5	E	1955-1982
Pyramidellidae	*Pyrgiscilla portseaensis*	3	EN	1865-1911
Pyramidellidae	*Pyrgiscus pinguis*	3	EN	1868-1961
Pyramidellidae	*Pyrgiscus sp.*	1	E	1961
Pyramidellidae	*Pyrgolampros fuscus*	13	EN	1881-1982
Pyramidellidae	*Pyrgolampros hedleyi*	11	EN	1875-1969
Pyramidellidae	*Pyrgulina caelatura*	10	EN	1881-1998
Pyramidellidae	*Pyrgulina ceria*	3	EN	1911-1969
Pyramidellidae	*Pyrgulina declivita*	1	E	1982
Pyramidellidae	*Pyrgulina kreffti*	16	ECN	1878-1985
Pyramidellidae	*Pyrgulina pascoei*	35	EN	1875-1985
Pyramidellidae	*Pyrgulina pseudalveata*	17	ECN	1879-1981
Pyramidellidae	*Pyrgulina pupula*	2	EN	1905-1911
Pyramidellidae	*Pyrgulina sp.*	1	E	1961
Pyramidellidae	*Pyrgulina tantilla*	21	EN	1867-1982
Pyramidellidae	*Rissopsetia maccoyi*	2	E	1955-1981
Pyramidellidae	*Rissosyrnola aclis*	3	EC	1865-1901
Pyramidellidae	*Rugadentia buliminoides*	1	N	1911
Pyramidellidae	*Rugadentia doliae*	1	E	1948
Pyramidellidae	*Rugadentia ignava*	4	EN	1879-1955
Pyramidellidae	*Sayella abjecta*	8	EN	1879-1982
Pyramidellidae	*Sayella sp.*	13	EN	1881-1975
Pyramidellidae	*Pyramidellidae sp.*	34	EN	1911-1985
Pyramidellidae	*Styloptygma sp.*	4	EN	1902-1969
Pyramidellidae	*Syrnola aurantiaca*	4	EN	1911-1957
Pyramidellidae	*Syrnola sp.*	1	N	1911
Pyramidellidae	*Syrnola tincta*	32	EN	1866-1981
Pyramidellidae	*Tiberia bifasciata*	9	EN	1899-1980
Pyramidellidae	*Tibersyrnola sp.*	6	EN	1867-1957
Pyramidellidae	*Turbonilla acicularis*	26	EN	1865-1980
Pyramidellidae	*Turbonilla ambulatia*	3	EN	1906-1950
Pyramidellidae	*Turbonilla beddomei*	27	ECN	1879-1998
Pyramidellidae	*Turbonilla gravis*	1	N	1985
Pyramidellidae	*Turbonilla hofmani*	2	EN	1911-1957
Pyramidellidae	*Turbonilla sp.*	46	ECN	1868-1985
Pyramidellidae	*Turbonilla vana*	4	E	1928-1955
Ranellidae	*Cabestana spengleri*	28	ECN	1865-1997
Ranellidae	*Cabestana tabulata*	3	E	1928-1931
Ranellidae	*Charonia lampas*	23	EN	1877-2000
Ranellidae	*Cymatium caudatum*	6	EC	1900-1950
Ranellidae	*Cymatium comptum*	1	E	1928
Ranellidae	*Cymatium dunkeri*	1	E	1928
Ranellidae	*Cymatium exaratum*	38	EN	1866-1994

Family	Scientific name	# Records	Regions	Years
Ranellidae	*Cymatium labiosum*	3	E	1867-1928
Ranellidae	*Cymatium muricinum*	1	E	1928
Ranellidae	*Cymatium nicobaricum*	1	E	1928
Ranellidae	*Cymatium occidentale*	1	E	1935
Ranellidae	*Cymatium parthenopeum*	21	EN	1877-1976
Ranellidae	*Cymatium pileare*	1	E	1931
Ranellidae	*Cymatium sinense*	7	E	1928-1985
Ranellidae	*Gyrineum lacunatum*	2	E	1928
Ranellidae	*Ranella australasia*	22	EN	1877-1980
Ranellidae	*Sassia parkinsonia*	27	EN	1875-1984
Raphitomidae	*Asperdaphne brenchleyi*	3	EC	1877-1912
Raphitomidae	*Asperdaphne hayesiana*	5	EC	1875-1959
Raphitomidae	*Asperdaphne rugosa*	2	EN	1970-1980
Raphitomidae	*Asperdaphne sculptilis*	5	E	1868-1890
Raphitomidae	*Asperdaphne sepulta*	2	E	1929-1954
Raphitomidae	*Asperdaphne versivestita*	2	E	1889-1890
Raphitomidae	*Austropusilla hilum*	2	E	1900-1913
Raphitomidae	*Daphnella botanica*	7	EN	1891-1980
Raphitomidae	*Microgenia edwini*	4	EN	1884-1901
Raphitomidae	*Nepotilla excavata*	1	N	1928
Raphitomidae	*Paramontana modesta*	3	E	1893-1913
Raphitomidae	*Paramontana rufozonata*	4	EN	1877-1911
Raphitomidae	*Pseudodaphnella pustulata*	2	N	1899-1926
Raphitomidae	*Tasmadaphne aculeola*	4	ECN	1881-1926
Raphitomidae	*Tritonoturris buccinoides*	2	E	1955
Retusidae	*Retusa atkinsoni*	21	ECN	1879-1975
Retusidae	*Retusa iredaleana*	10	ECN	1911-1970
Retusidae	*Retusa protumida*	1	E	1890
Retusidae	*Volvulella rostrata*	2	EN	1963-1969
Retusidae	*Volvulella tragula*	3	EC	1963-1969
Ringiculidae	*Ringicula doliaris*	1	N	1983
Ringiculidae	*Ringiculidae sp.*	6	N	1944-1981
Rissoellidae	*Rissoella confusa*	1	E	1968
Rissoellidae	*Rissoella fallax*	5	EN	1961-1969
Rissoellidae	*Rissoella micra*	13	EN	1879-2002
Rissoellidae	*Rissoella secunda*	18	EN	1879-1969
Rissoidae	*Alvania fasciata*	11	EN	1879-1968
Rissoidae	*Alvania filocincta*	4	EN	1955-1961
Rissoidae	*Alvania novarensis*	18	EN	1878-1976
Rissoidae	*Alvania sp.*	2	E	1955-1967
Rissoidae	*Alvania strangei*	12	EN	1893-1968
Rissoidae	*Alvania suprasculpta*	10	EN	1867-1976
Rissoidae	*Alvania thouinensis*	4	EN	1911-1968
Rissoidae	*Lironoba hebes*	3	N	1911-1967
Rissoidae	*Lironoba imbrex*	2	N	1908
Rissoidae	*Lucidestea nitens*	17	EN	1879-1976
Rissoidae	*Merelina elegans*	39	EN	1867-1982
Rissoidae	*Merelina gracilis*	32	EN	1889-1985
Rissoidae	*Merelina hirta*	15	EN	1886-1972
Rissoidae	*Onoba australiae*	21	EN	1865-1985
Rissoidae	*Onoba perpolita*	1	N	1967
Rissoidae	*Onoba rubicunda*	15	EN	1867-1985
Rissoidae	*Onoba sp.*	4	EN	1951-1969
Rissoidae	*Powellisetia sp.*	2	CN	1963-1980
Rissoidae	*Pusillina discrepans*	11	EN	1879-1968
Rissoidae	*Pusillina praeda*	1	N	1908
Rissoidae	*Pusillina sp.*	1	E	1981
Rissoidae	*Rissoina ambigua*	1	E	1900
Rissoidae	*Rissoina angasi*	15	EN	1865-1967
Rissoidae	*Rissoina crassa*	3	EN	1877-1911
Rissoidae	*Rissoina elegantula*	8	EC	1865-1967
Rissoidae	*Rissoina fasciata*	55	EN	1865-1985
Rissoidae	*Rissoina iredalei*	3	E	1948-1969
Rissoidae	*Voorwindea umbilicata*	33	EN	1868-2009
Scaliolidae	*Finella lutosus*	2	N	1911
Scaliolidae	*Finella pupoides*	17	ECN	1911-1970
Scaliolidae	*Finella sp.*	2	EC	2001
Scaliolidae	*Scaliola sp.*	1	N	1911
Schizochitonidae	*Lorica volvox*	12	E	1888-1932
Schizochitonidae	*Loricella angasi*	14	EN	1895-1958

Family	Scientifc name	# Records	Regions	Years
Scissurellidae	*Sinezona beddomei*	1	E	1950
Scissurellidae	*Sinezona pacifica*	9	EN	1865-1969
Scissurellidae	*Sukashitrochus atkinsoni*	35	ECN	1865-1981
Semelidae	*Ervilia bisculpta*	16	EN	1868-1968
Semelidae	*Ervilia sandwichensis*	7	EN	1879-1960
Semelidae	*Leptomya pura*	3	EC	1868-1955
Semelidae	*Theora fragilis*	8	ECN	1877-1968
Semelidae	*Theora lubrica **	9	EC	2001
Sepiadariidae	*Sepiadarium sp.*	1	E	1888
Sepiadariidae	*Sepioloidea lineolata*	7	EN	1888-2001
Sepiidae	*Sepia apama*	7	EC	1888-1977
Sepiidae	*Sepia hedleyi*	1	E	1972
Sepiidae	*Sepia mestus*	17	EC	1888-2001
Sepiidae	*Sepia plangon*	20	ECN	1888-2003
Sepiidae	*Sepia rozella*	1	E	1998
Sepiidae	*Sepia sp.*	2	E	1997
Sepiolidae	*Euprymna tasmanica*	10	EW	1888-2000
Siliquariidae	*Siliquaria bernardii*	1	E	1877
Siliquariidae	*Siliquaria cumingii*	2	EN	1877-1903
Siliquariidae	*Siliquaria ponderosus*	1	E	1877
Siliquariidae	*Siliquaria sp.*	2	E	1880-1955
Siliquariidae	*Stephopoma sp.*	3	E	1877-1928
Siliquariidae	*Stephopoma tricuspe*	1	N	1912
Siphonariidae	*Pugillaria stowae*	3	EN	1908-1965
Siphonariidae	*Siphonaria denticulata*	23	ECN	1877-1996
Siphonariidae	*Siphonaria diemenensis*	4	EC	1950-1996
Siphonariidae	*Siphonaria funiculata*	13	EN	1911-1995
Siphonariidae	*Siphonaria sp.*	6	C	1996-2001
Siphonariidae	*Siphonaria zelandica*	5	ECN	1877-1996
Siphonariidae	*Williamia radiata*	6	EN	1879-1967
Skeneidae	*Brookula angeli*	21	EN	1878-1981
Skeneidae	*Brookula crebresculpta*	8	EN	1878-1971
Skeneidae	*Brookula nepeanensis*	6	E	1928-1967
Skeneidae	*Brookula pulcherrima*	1	E	1893
Skeneidae	*Brookula sp.*	1	E	1983
Skeneidae	*Circulus lodderae*	6	EN	1865-1980
Skeneidae	*Cirsonella lata*	2	EN	1911-1950
Skeneidae	*Cirsonella reflecta*	6	EN	1879-1967
Skeneidae	*Cirsonella sp.*	4	E	1900-1981
Skeneidae	*Cirsonella weldii*	9	EN	1878-1967
Skeneidae	*Crossea concinna*	27	ECN	1866-1985
Skeneidae	*Liotella annulata*	5	EN	1878-1967
Skeneidae	*Liotella johnstoni*	4	EN	1879-1967
Skeneidae	*Liotella kilcundae*	12	EN	1868-1981
Skeneidae	*Liotella petalifera*	1	E	1967
Skeneidae	*Liotella pulcherrima*	7	EN	1893-1967
Skeneidae	*Lissotesta micra*	1	E	1967
Skeneidae	*Lodderena minima*	20	EN	1865-1981
Skeneidae	*Microcarina surgerea*	24	EN	1878-1984
Skeneidae	*Partubiola blancha*	1	E	1928
Skeneidae	*Putilla porcellana*	5	EN	1911-1967
Skeneidae	*Putilla sp.*	2	E	1955-1957
Skeneidae	*Skeneidae sp.*	3	E	1954-1981
Skeneidae	*Zalipais inscriptum*	5	EN	1925-1967
Solemyidae	*Solemya velesiana*	3	EN	1895-1928
Solenidae	*Solen vaginoides*	12	EN	1877-1974
Spirulidae	*Spirula spirula*	1	E	1877
Spondylidae	*Spondylus tenellus*	9	EN	1879-1974
Strombidae	*Strombus dilatatus*	2	E	1928-1935
Strombidae	*Strombus erythrinus*	1	E	1928
Strombidae	*Strombus labiatus*	1	E	1931
Strombidae	*Strombus luhuanus*	9	E	1860-1950
Strombidae	*Strombus mutabilis*	7	EN	1877-1970
Strombidae	*Strombus plicatus*	1	E	1931
Strombidae	*Strombus vittatus*	1	E	1928
Strombidae	*Strombus vomer*	2	E	1928
Struthiolariidae	*Tylospira scutulata*	14	EN	1900-1998
Tellinidae	*Leporimetis spectabilis*	1	C	1963
Tellinidae	*Macoma hemicilla*	1	E	1929
Tellinidae	*Macoma vappa*	1	E	1928

Family	Scientifc name	# Records	Regions	Years
Tellinidae	*Tellina albinella*	1	E	1928
Tellinidae	*Tellina astula*	4	E	1900-1950
Tellinidae	*Tellina botanica*	8	EN	1888-1957
Tellinidae	*Tellina deltoidalis*	20	ECNW	1865-1998
Tellinidae	*Tellina gemonia*	5	E	1928-1993
Tellinidae	*Tellina hypelliptica*	21	ECN	1864-1993
Tellinidae	*Tellina imbellis*	10	EN	1864-1959
Tellinidae	*Tellina inflata*	1	E	1900
Tellinidae	*Tellina lilium*	5	EC	1928-1980
Tellinidae	*Tellina modestina*	16	EN	1866-1980
Tellinidae	*Tellina parvitas*	3	E	1931-1967
Tellinidae	*Tellina subdiluta*	8	EN	1888-1955
Tellinidae	*Tellina tenuilirata*	21	EN	1867-1980
Terebridae	*Duplicaria ustulata*	1	E	1970
Terebridae	*Hastula brazieri*	5	E	1914-1970
Terebridae	*Terebra amanda*	3	E	1928-1950
Terebridae	*Terebra assecla*	1	E	1950
Terebridae	*Terebra ballina*	1	E	1980
Terebridae	*Terebra jacksoniana*	2	EN	1899-1911
Terebridae	*Terebra punctatostriata*	1	E	1928
Terebridae	*Terebra swainsoni*	1	E	1888
Terebridae	*Terebra textilis*	1	E	1955
Terebridae	*Terebra tristis*	14	EN	1865-1980
Terebridae	*Terebra venilia*	8	E	1877-1950
Teredinidae	*Bankia australis*	48	ECNW	none
Teredinidae	*Bankia carinata*	2	N	1972
Teredinidae	*Lyrodus medilobatus*	15	ECN	none
Teredinidae	*Lyrodus pedicellatus*	20	ECN	none
Teredinidae	*Lyrodus sp.*	6	ECN	1971-1972
Teredinidae	*Nausitora dunlopei*	4	EC	1893-1940
Teredinidae	*Nototeredo edax*	12	ECN	1898-1971
Teredinidae	*Teredo bartschi*	5	CN	1928-1930
Teredinidae	*Teredo furcifera*	20	ECN	1971-1972
Teredinidae	*Teredo navalis**	50	ECN	1928-1972
Tergipedidae	*Cuthona kuiteri*	2	E	1979
Thaisidae	*Morula marginalba*	1	E	2001
Thraciidae	*Thracia angasiana*	4	E	1864-1900
Thraciidae	*Thracia australica*	3	E	1864-1955
Thraciidae	*Thracia modesta*	8	EN	1878-1950
Thraciidae	*Thracia ovalis*	3	EN	1874-1913
Thraciidae	*Thracia speciosa*	4	E	1900-1928
Thraciidae	*Thraciopsis angustata*	1	E	1877
Thraciidae	*Thraciopsis elongata*	2	E	1864-1900
Thraciidae	*Thraciopsis peroniana*	5	EN	1864-1949
Tonnidae	*Malea pomum*	3	E	1928-1931
Tonnidae	*Tonna allium*	3	E	1928-1957
Tonnidae	*Tonna cepa*	1	E	1928
Tonnidae	*Tonna chinensis*	7	EN	1928-1957
Tonnidae	*Tonna cumingii*	1	E	1929
Tonnidae	*Tonna dolium*	3	E	1928-1950
Tonnidae	*Tonna tankervillii*	11	EN	1877-1975
Tonnidae	*Tonna tetracotula*	2	E	1928
Tornidae	*Microdiscula vitrea*	1	E	1950
Trigoniidae	*Neotrigonia lamarckii*	17	EC	1874-1967
Trigoniidae	*Neotrigonia margaritacea*	2	E	1877-1885
Trigoniidae	*Neotrigonia sp.*	17	EN	1866-1969
Trigoniidae	*Neotrigonia uniophora*	6	E	1870-1981
Trimusculidae	*Trimusculus conica*	8	EN	1866-1980
Triphoridae	*Aclophoropsis maculosa*	11	EN	1877-1979
Triphoridae	*Aclophoropsis univitta*	1	C	1884
Triphoridae	*Bouchetriphora aspergata*	1	E	1911
Triphoridae	*Bouchetriphora marrowi*	2	EN	1903-1911
Triphoridae	*Bouchetriphora pallida*	3	EN	1911-1948
Triphoridae	*Cheirodonta labiata*	8	EN	1878-1966
Triphoridae	*Hedleytriphora elata*	2	EN	1911-1928
Triphoridae	*Hedleytriphora fasciata*	2	E	1902-1954
Triphoridae	*Hedleytriphora innotabilis*	2	E	1903-1911
Triphoridae	*Latitriphora kesteveni*	2	EN	1902-1911
Triphoridae	*Mesophora fusca*	7	CN	1903-2011
Triphoridae	*Monophorus angasi*	4	EN	1911-1972

Family	Scientifc name	# Records	Regions	Years
Triphoridae	*Monophorus nigrofusca*	21	ECNW	1865-1980
Triphoridae	*Nototriphora regina*	1	N	1903
Triphoridae	*Obesula albovittata*	2	N	1903-1966
Triphoridae	*Sagenotriphora ampulla*	4	EN	1903-1967
Triphoridae	*Seilarex turritelliformis*	19	ECN	1865-1970
Triphoridae	*Talophora subulata*	1	E	1865
Triphoridae	*Tetraphora granifera*	13	E	1878-1972
Triviidae	*Alaerato bisinventa*	8	EN	1877-1959
Triviidae	*Cleotrivia globosa*	5	EN	1890-1980
Triviidae	*Cleotrivia pilula*	2	E	1928-1929
Triviidae	*Ellatrivia merces*	13	EN	1865-1968
Triviidae	*Trivirostra oryza*	4	EN	1911-1955
Triviidae	*Trivirostra pellucidula*	1	E	1960
Triviidae	*Trivirostra shawi*	3	E	1928-1960
Trochidae	*Astele speciosa*	3	E	1900-1931
Trochidae	*Astelena scitula*	23	EN	1877-1975
Trochidae	*Austrocochlea porcata*	24	ECN	1860-2007
Trochidae	*Austrocochlea sp.*	1	E	2007
Trochidae	*Bankivia fasciata*	8	EN	1877-1971
Trochidae	*Calliostoma comptus*	12	EN	1878-1985
Trochidae	*Calthalotia fragum*	25	ECN	1866-1986
Trochidae	*Cantharidella picturata*	21	EN	1866-1980
Trochidae	*Charisma compacta*	1	E	1961
Trochidae	*Charisma sp.*	1	E	1955
Trochidae	*Clanculus brunneus*	11	EN	1877-1970
Trochidae	*Clanculus clangulus*	19	EN	1865-1999
Trochidae	*Clanculus floridus*	13	EN	1866-1985
Trochidae	*Clanculus maugeri*	5	EN	1900-2009
Trochidae	*Clanculus plebejus*	1	E	1889
Trochidae	*Clanculus undatoides*	4	EN	1877-1928
Trochidae	*Diloma concamerata*	6	EN	1909-2007
Trochidae	*Ethminolia probabilis*	43	EN	1866-1980
Trochidae	*Euchelus ampullus*	4	EN	1890-1955
Trochidae	*Euchelus atratus*	1	N	1911
Trochidae	*Eurytrochus strangei*	20	EN	1866-1980
Trochidae	*Fossarina patula*	9	EN	1888-1980
Trochidae	*Granata imbricata*	10	EN	1877-1982
Trochidae	*Herpetopoma aspersa*	27	ECN	1877-2000
Trochidae	*Herpetopoma scabriuscula*	18	ECN	1875-1975
Trochidae	*Isanda coronata*	1	E	1865
Trochidae	*Leiopyrga lineolaris*	20	EN	1865-1974
Trochidae	*Monilea lentiginosa*	8	EN	1900-1972
Trochidae	*Nanula tasmanica*	5	EN	1901-1974
Trochidae	*Notogibbula bicarinata*	8	EN	1865-1979
Trochidae	*Phasianotrochus eximius*	18	EN	1865-2006
Trochidae	*Spectamen bellulum*	8	EN	1866-1960
Trochidae	*Spectamen pulcherrima*	8	EN	1877-1972
Trochidae	*Stomatella impertusa*	20	EN	1865-2000
Trochidae	*Talopena gloriola*	24	EN	1866-1998
Truncatellidae	*Truncatellidae sp.*	3	EN	1946-1957
Truncatellidae	*Truncatella guerinii*	7	ECN	1868-1985
Turbinidae	*Astralium squamiferum*	30	EN	1866-2000
Turbinidae	*Astralium tentoriiformis*	18	EN	1866-1973
Turbinidae	*Austroliotia botanica*	17	EN	1875-1969
Turbinidae	*Austroliotia subquadrata*	1	N	1911
Turbinidae	*Parisanda iredalei*	1	N	1911
Turbinidae	*Phasianella ventricosa*	1	E	1928
Turbinidae	*Tricolia sp.*	3	E	2001
Turbinidae	*Tricolia variabilis*	21	EN	1865-1976
Turbinidae	*Turbo bruneus*	1	E	1966
Turbinidae	*Turbo exquisitus*	8	EN	1893-1976
Turbinidae	*Turbo laminiferus*	1	E	1880
Turbinidae	*Turbo militaris*	6	EN	1877-2000
Turbinidae	*Turbo torquatus*	15	EN	1892-1978
Turbinidae	*Turbo undulatus*	11	EN	1877-1995
Turridae	*Epidirella xanthophaes*	1	N	1926
Turridae	*Etrema alliterata*	4	E	1877-1980
Turridae	*Euguraleus jacksonensis*	5	EN	1888-1985
Turridae	*Euguraleus tasmanicus*	2	E	1877-1959
Turridae	*Gemmula graeffei*	1	E	1935

Family	Scientific name	# Records	Regions	Years
Turridae	*Gemmula hawleyi*	1	E	1931
Turridae	*Gemmula monilifera*	1	E	1929
Turridae	*Guraleus tenuiliratus*	1	E	1900
Turridae	*Marita compta*	9	EN	1877-1970
Turridae	*Mitraguraleus mitralis*	2	EN	1911-1954
Turridae	*Splendrillia woodsi*	2	EN	1899-1900
Turridae	*Xenuroturris incredula*	1	E	1931
Turritellidae	*Colpospira guillaumei*	10	EN	1912-1972
Turritellidae	*Colpospira quadrata*	1	N	1877
Turritellidae	*Colpospira sinuata*	10	E	1865-1955
Turritellidae	*Colpospira wollumbi*	3	EN	1955-1967
Turritellidae	*Gazameda gunnii*	4	E	1890-1955
Turritellidae	*Haustator cingulifer*	1	E	1950
Umbraculidae	*Umbraculum umbraculum*	10	EN	1877-1975
Ungulinidae	*Cycladicama excentrica*	3	EC	1877-1963
Ungulinidae	*Diplodonta sp.*	1	C	2001
Ungulinidae	*Diplodonta tasmanica*	7	E	1864-1980
Ungulinidae	*Felaniella globularis*	19	ECN	1879-1972
Ungulinidae	*Numella adamsi*	6	EN	1888-1969
Vanikoridae	*Naricava angasi*	8	EN	1899-1970
Vanikoridae	*Naricava kimberi*	1	E	1928
Vanikoridae	*Naricava vincentiana*	9	EN	1879-1967
Vanikoridae	*Tropidorbis mendicus*	1	E	1955
Vanikoridae	*Vanikoro expansa*	5	EC	1877-1900
Vanikoridae	*Vanikoro gueriniana*	1	N	1900
Vanikoridae	*Vanikoro sigaretiformis*	7	EN	1877-1970
Velutinidae	*Marseniopsis innominatus*	2	EN	1911-1928
Veneridae	*Antigona chemnitzii*	10	ECW	1877-1998
Veneridae	*Antigona persimilis*	10	EN	1911-1972
Veneridae	*Bassina disjecta*	6	EN	1900-1957
Veneridae	*Bassina jacksoni*	8	EN	1904-1976
Veneridae	*Bassina pachyphylla*	3	EN	1904-1957
Veneridae	*Circe mistura*	2	E	1928
Veneridae	*Circe scripta*	14	ECN	1864-1972
Veneridae	*Clementia crassiplica*	8	ECN	1864-1973
Veneridae	*Clementia papyracea*	2	NW	1967-1998
Veneridae	*Dosinia circinaria*	7	EN	1908-1967
Veneridae	*Dosinia crocea*	7	EN	1866-1969
Veneridae	*Dosinia nedigna*	7	EN	1877-1969
Veneridae	*Dosinia sculpta*	16	ECN	1877-1973
Veneridae	*Eumarcia fumigata*	38	ECN	1877-1997
Veneridae	*Gomphina fulgida*	7	E	1877-1929
Veneridae	*Gouldia australis*	14	EN	1877-1985
Veneridae	*Irus crenatus*	39	ECNW	1886-1998
Veneridae	*Katelysia rhytiphora*	4	EN	1943-1959
Veneridae	*Katelysia scalarina*	2	E	1936
Veneridae	*Notocallista disrupta*	22	EN	1877-1972
Veneridae	*Notocallista kingii*	9	E	1877-1957
Veneridae	*Paphia crassisulca*	24	ECN	1877-1975
Veneridae	*Paphia undulata*	10	EC	1895-2001
Veneridae	*Pitar osmunda*	3	E	1928-1930
Veneridae	*Pitar sophiae*	5	EN	1866-1928
Veneridae	*Placamen calophylla*	12	EC	1865-1985
Veneridae	*Placamen placidum*	14	EN	1877-1969
Veneridae	*Tapes dorsatus*	41	ECN	1877-2011
Veneridae	*Tawera gallinula*	4	E	1888-1969
Veneridae	*Tawera lagopus*	7	EN	1877-1976
Veneridae	*Tawera laticostata*	1	E	1928
Veneridae	*Timoclea cardioides*	29	ECN	1866-1976
Veneridae	*Timoclea scabra*	11	EN	1880-1972
Veneridae	*Venerupis anomala*	19	EN	1877-1972
Veneridae	*Venerupis iridescens*	1	E	1900
Vermetidae	*Petaloconchus caperatus*	3	N	1902-2010
Vermetidae	*Vermetidae sp.*	4	EN	1877-1985
Verticordiidae	*Thracidora arenosa*	1	N	1955
Vitrinellidae	*Callodix solida*	8	EN	1878-1955
Vitrinellidae	*Callomphala lucida*	18	ECN	1875-1980
Vitrinellidae	*Laciniorbis morti*	2	E	1928-1931
Vitrinellidae	*Pseudoliotia micans*	23	ECN	1884-1998
Vitrinellidae	*Pseudoliotia speciosa*	28	ECN	1879-1998

Family	Scientific name	# Records	Regions	Years
Vitrinellidae	*Rotostoma brazieri*	3	EN	1889-1954
Vitrinellidae	*Vitrinella starkeyae*	3	EN	1899-1950
Volutidae	*Amoria undulata*	5	EN	1919-1958
Volutidae	*Cymbiola magnifica*	6	EN	1877-1955
Volutomitridae	*Microvoluta australis*	1	E	1888
Zephyrinidae	*Caldukia affinis*	2	EN	1978
Zephyrinidae	*Caldukia sp.*	1	E	1977

Fishes

Family	Scientific name	# Records	Regions	Years
Acanthuridae	*Acanthurus dussumieri*	1	E	1974
Acanthuridae	*Acanthurus olivaceus*	2	E	1974-2000
Acanthuridae	*Acanthurus triostegus*	1	E	2000
Acanthuridae	*Acanthurus xanthopterus*	1	E	1962
Acanthuridae	*Prionurus maculatus*	3	EN	1887-1972
Acanthuridae	*Prionurus microlepidotus*	25	ECN	1887-2004
Ambassidae	*Ambassis jacksoniensis*	53	ECNW	1881-1999
Ambassidae	*Ambassis marianus*	11	ECNW	1881-1999
Anguillidae	*Anguilla australis*	5	EN	1931-1975
Anguillidae	*Anguilla reinhardtii*	4	ECW	1889-1972
Antennariidae	*Antennariidae n. sp*	1	E	2005
Antennariidae	*Antennarius commerson*	2	EN	1901-1980
Antennariidae	*Antennarius hispidus*	1	E	1963
Antennariidae	*Antennarius pictus*	3	E	1976-1978
Antennariidae	*Antennarius striatus*	47	ECN	1879-2001
Antennariidae	*Histrio histrio*	6	EN	1912-1981
Aploactinidae	*Aploactisoma milesii*	15	ECN	1880-2000
Aploactinidae	*Cocotropus microps*	1	E	2001
Aplodactylidae	*Aplodactylus lophodon*	4	EN	1938-2001
Apogonidae	*Apogon angustatus*	1	E	1976
Apogonidae	*Apogon aureus*	3	EN	1972-1976
Apogonidae	*Apogon capricornis*	1	E	1976
Apogonidae	*Apogon crassiceps*	4	E	1976-2001
Apogonidae	*Apogon cyanosoma*	3	E	1973-1976
Apogonidae	*Apogon doederleini*	2	E	1976
Apogonidae	*Apogon fasciatus*	36	ECN	1882-2001
Apogonidae	*Apogon fraenatus*	1	E	1976
Apogonidae	*Apogon hartzfeldi*	1	E	1976
Apogonidae	*Apogon limenus*	34	ECN	1972-2004
Apogonidae	*Apogon nigripinnis*	6	EN	1966-1976
Apogonidae	*Apogon semiornatus*	3	EN	1973-1976
Apogonidae	*Cheilodipterus quinquelineatus*	2	E	1974
Apogonidae	*Pseudamia gelatinosa*	1	E	1976
Apogonidae	*Siphamia cephalotes*	7	ECN	1903-2001
Apogonidae	*Siphamia roseigaster*	27	ECW	1886-2001
Apogonidae	*Vincentia novaehollandiae*	25	ECW	1888-2004
Ariidae	*Netuma thalassina*	1	E	1885
Arripidae	*Arripis georgianus*	1	E	1886
Arripidae	*Arripis trutta*	14	EC	1882-2000
Atherinidae	*Atherinason hepsetoides*	1	E	1942
Atherinidae	*Atherinomorus vaigiensis*	15	EN	1912-1999
Atherinidae	*Atherinosoma microstoma*	1	C	1997
Atherinidae	*Pseudomugil signifer*	1	N	2012
Aulopidae	*Hime purpurissatus*	13	EC	1880-1967
Balistidae	*Sufflamen chrysopterum*	3	EN	1973-1982
Balistidae	*Sufflamen fraenatum*	1	N	1971
Batrachoididae	*Batrachomoeus dubius*	31	ECNW	1879-2001
Belonidae	*Ablennes hians*	1	E	1945
Belonidae	*Strongylura leiura*	9	C	1881
Belonidae	*Tylosurus gavialoides*	3	EN	1881-1887
Berycidae	*Centroberyx affinis*	5	EC	1881-1972
Blenniidae	*Aspidontus taeniatus*	3	E	1962-1973
Blenniidae	*Istiblennius meleagris*	1	E	1974
Blenniidae	*Omobranchus anolius*	12	ECN	1881-2001
Blenniidae	*Omobranchus rotundiceps*	7	CN	1881-1910
Blenniidae	*Parablennius intermedius*	6	ECN	1881-2001
Blenniidae	*Parablennius tasmanianus*	7	EC	1906-2001
Blenniidae	*Petroscirtes fallax*	1	E	2010
Blenniidae	*Petroscirtes lupus*	18	EN	1885-2001

APPENDIX I

Family	Scientifc name	# Records	Regions	Years
Blenniidae	*Plagiotremus rhinorhynchos*	2	E	1974
Blenniidae	*Plagiotremus tapeinosoma*	6	E	1962-2004
Blenniidae	*Xiphasia setifer*	3	E	1886-1918
Bothidae	*Arnoglossus fisoni*	1	E	1934
Bothidae	*Engyprosopon grandisquama*	9	ECN	1881-1979
Bothidae	*Lophonectes gallus*	14	EN	1882-1973
Brachaeluridae	*Brachaelurus waddi*	18	ECN	1879-1987
Bramidae	*Pteraclis velifera*	1	N	1935
Bythitidae	*Brosmophyciops pautzkei*	1	E	2001
Bythitidae	*Dermatopsis macrodon*	10	EC	1915-2001
Bythitidae	*Monothrix polylepis*	2	E	1976-2004
Callanthiidae	*Callanthias allporti*	2	E	1895-2000
Callionymidae	*Eocallionymus papilio*	24	ECN	1881-2004
Callionymidae	*Foetorepus calauropomus*	8	ECN	1879-2001
Callionymidae	*Repomucenus calcaratus*	12	EN	1881-1972
Callionymidae	*Repomucenus limiceps*	1	E	1929
Callorhynchidae	*Callorhinchus milii*	2	E	1967-2000
Carangidae	*Alectis ciliaris*	7	EW	1887-1976
Carangidae	*Carangoides orthogrammus*	2	E	1902-1973
Carangidae	*Caranx ignobilis*	1	E	1948
Carangidae	*Caranx sexfasciatus*	1	N	1972
Carangidae	*Decapterus muroadsi*	2	E	1897-1900
Carangidae	*Megalaspis cordyla*	1	E	1910
Carangidae	*Naucrates ductor*	26	EC	1882-1936
Carangidae	*Pseudocaranx georgianus*	12	ECN	1880-2001
Carangidae	*Seriola dumerili*	1	N	1974
Carangidae	*Seriola hippos*	7	EN	1886-1948
Carangidae	*Seriola lalandi*	2	E	2000
Carangidae	*Trachinotus baillonii*	6	EN	1885-1989
Carangidae	*Trachinotus blochii*	1	W	1946
Carangidae	*Trachurus declivis*	5	EC	1882-2000
Carangidae	*Trachurus novaezelandiae*	20	ECNW	1908-2001
Carangidae	*Uraspis secunda*	1	E	1908
Carapidae	*Echiodon rendahli*	1	E	1889
Carcharhinidae	*Carcharhinus brachyurus*	6	E	1880-1921.5
Carcharhinidae	*Carcharhinus falciformis*	1	N	2006
Carcharhinidae	*Carcharhinus leucas*	3	E	1963-1999
Carcharhinidae	*Carcharhinus obscurus*	6	E	1887-1940
Carcharhinidae	*Galeocerdo cuvier*	8	EC	1882-2001
Centrolophidae	*Seriolella brama*	4	ECN	1881-1972
Cepolidae	*Cepola australis*	2	EN	1885-1978
Chaetodontidae	*Chaetodon auriga*	5	EN	1962-1976
Chaetodontidae	*Chaetodon flavirostris*	7	EN	1962-1976
Chaetodontidae	*Chaetodon guentheri*	2	E	1973-1976
Chaetodontidae	*Chaetodon kleinii*	2	E	1962-1974
Chaetodontidae	*Chaetodon lunula*	1	E	1887
Chaetodontidae	*Chaetodon melannotus*	1	E	1974
Chaetodontidae	*Chaetodon ulietensis*	1	N	1974
Chaetodontidae	*Chelmon rostratus*	1	C	1880
Chaetodontidae	*Chelmonops truncatus*	8	EN	1886-1974
Chaetodontidae	*Heniochus acuminatus*	9	EN	1962-1976
Chaetodontidae	*Heniochus diphreutes*	2	EN	1976-1980
Chaetodontidae	*Parachaetodon ocellatus*	1	N	1973
Chanidae	*Chanos chanos*	1	E	1891
Cheilodactylidae	*Cheilodactylus fuscus*	19	ECN	1882-2004
Cheilodactylidae	*Cheilodactylus spectabilis*	1	E	1999
Cheilodactylidae	*Cheilodactylus vestitus*	11	EW	1881-1981
Cheilodactylidae	*Dactylophora nigricans*	2	E	1885
Cheilodactylidae	*Nemadactylus douglasii*	1	E	2000
Cheilodactylidae	*Nemadactylus macropterus*	1	E	1885
Chironemidae	*Chironemus marmoratus*	7	EN	1885-2001
Cirrhitidae	*Cirrhitichthys aprinus*	6	E	1885-2003
Cirrhitidae	*Cirrhitichthys falco*	1	E	1976
Cirrhitidae	*Cyprinocirrhites polyactis*	1	E	1974
Clinidae	*Cristiceps argyropleura*	2	E	1931-1998
Clinidae	*Cristiceps aurantiacus*	17	ECN	1880-2001
Clinidae	*Cristiceps australis*	24	ECN	1880-1999
Clinidae	*Heteroclinus heptaeolus*	5	EN	1965-1976
Clinidae	*Heteroclinus nasutus*	7	E	1886-2001
Clinidae	*Heteroclinus roseus*	10	EN	1886-2001

Family	Scientifc name	# Records	Regions	Years
Clinidae	*Heteroclinus whiteleggii*	12	EN	1881-2001
Clupeidae	*Etrumeus teres*	3	EN	1878-1886
Clupeidae	*Herklotsichthys castelnaui*	6	EN	1885-1977
Clupeidae	*Herklotsichthys koningsbergeri*	2	E	1908
Clupeidae	*Hyperlophus translucidus*	6	ENW	1903-1981
Clupeidae	*Hyperlophus vittatus*	30	ENW	1885-2001
Clupeidae	*Sardinops sagax*	15	E	1886-1920
Clupeidae	*Spratelloides robustus*	15	E	1905-1999
Congridae	*Conger verreauxi*	1	N	1973
Congridae	*Conger wilsoni*	11	ECN	1885-2001
Congridae	*Gnathophis longicaudus*	1	E	1887
Coryphaenidae	*Coryphaena hippurus*	2	EN	1904-1975
Creediidae	*Creedia haswelli*	1	E	1989
Creediidae	*Creedia partimsquamigera*	1	E	1987
Cynoglossidae	*Paraplagusia bilineata*	4	ECNW	1881-1972
Cyprinidae	*Carassius auratus**	2	W	1887-1975
Dactylopteridae	*Dactyloptena orientalis*	8	EC	1881-1987
Dasyatidae	*Dasyatis brevicaudata*	1	E	1885
Dasyatidae	*Dasyatis fluviorum*	2	E	1885-1914
Dasyatidae	*Dasyatis kuhlii*	2	W	1887
Dinolestidae	*Dinolestes lewini*	9	EN	1885-2001
Diodontidae	*Dicotylichthys punctulatus*	14	ECN	1882-1976
Diodontidae	*Diodon holocanthus*	2	E	1956-1976
Diodontidae	*Diodon hystrix*	4	C	1880-1881
Echeneididae	*Echeneis naucrates*	7	EN	1898-1943
Echeneididae	*Remora remora*	12	EC	1881-1963
Eleotridae	*Gobiomorphus australis*	5	EC	1922-1972
Eleotridae	*Gobiomorphus coxii*	5	CNW	1972-2002
Eleotridae	*Hypseleotris compressa*	2	EN	1911-1975
Eleotridae	*Hypseleotris galii*	2	E	1904
Eleotridae	*Philypnodon grandiceps*	23	ENW	1904-2003
Eleotridae	*Philypnodon macrostomus*	3	ECW	1916-2003
Elopidae	*Elops hawaiensis*	6	ENW	1885-1977
Engraulididae	*Engraulis australis*	8	ENW	1903-1989
Enoplosidae	*Enoplosus armatus*	40	ECN	1880-2004
Ephippididae	*Platax teira*	3	E	1895-1976
Exocoetidae	*Cheilopogon pinnatibarbatus*	4	EC	1882-1892
Exocoetidae	*Cypselurus hexazona*	1	E	1945
Exocoetidae	*Hirundichthys oxycephalus*	2	E	1946-1959
Exocoetidae	*Hirundichthys speculiger*	1	E	1885
Fistulariidae	*Fistularia commersonii*	7	EN	1887-1951
Fistulariidae	*Fistularia petimba*	16	ECN	1880-1972
Galaxiidae	*Galaxias maculatus*	7	ECN	1905-1995
Gempylidae	*Thyrsites atun*	1	C	1935
Gerreidae	*Gerres subfasciatus*	25	ECN	1885-2001
Glaucosomidae	*Glaucosoma scapulare*	4	EC	1880-1889
Gobiesocidae	*Alabes dorsalis*	3	EN	1881-1959
Gobiesocidae	*Aspasmogaster costata*	21	ECN	1888-2003
Gobiesocidae	*Cochleoceps orientalis*	2	E	2001
Gobiidae	*Acanthogobius flavimanus**	18	ECNW	1971-2006
Gobiidae	*Acentrogobius pflaumii*	16	EC	2001
Gobiidae	*Afurcagobius tamarensis*	9	ECN	1934-2001
Gobiidae	*Amblygobius phalaena*	4	E	1974
Gobiidae	*Arenigobius bifrenatus*	16	CNW	1886-2001
Gobiidae	*Arenigobius frenatus*	20	ECNW	1881-2001
Gobiidae	*Asterropteryx semipunctatus*	2	E	1976
Gobiidae	*Bathygobius cocosensis*	4	EN	1923-1976
Gobiidae	*Bathygobius krefftii*	37	ECN	1888-2001
Gobiidae	*Callogobius depressus*	15	ECN	1886-2001
Gobiidae	*Callogobius mucosus*	15	EC	1997-2001
Gobiidae	*Cryptocentroides gobioides*	10	ENW	1881-1975
Gobiidae	*Eviota albolineata*	1	E	1973
Gobiidae	*Eviota sparsa*	1	E	1976
Gobiidae	*Favonigobius exquisitus*	16	ECNW	1924-2001
Gobiidae	*Favonigobius lentiginosus*	7	EW	1887-1977
Gobiidae	*Gnatholepis anjerensis*	1	E	1976
Gobiidae	*Gobiopterus semivestitus*	6	CW	1983-2001
Gobiidae	*Istigobius hoesei*	30	EC	1976-2004
Gobiidae	*Mugilogobius platynotus*	4	CNW	1935-1972
Gobiidae	*Mugilogobius stigmaticus*	1	C	1972

Family	Scientifc name	# Records	Regions	Years
Gobiidae	*Nesogobius pulchellus*	7	EN	1886-1972
Gobiidae	*Pandaka lidwilli*	2	N	1908-2006
Gobiidae	*Pleurosicya bilobata*	1	E	1976
Gobiidae	*Pleurosicya mossambica*	3	E	1976-1986
Gobiidae	*Priolepis cincta*	3	E	1973-1976
Gobiidae	*Priolepis nuchifasciata*	22	EC	1962-2001
Gobiidae	*Pseudogobius sp.*	17	ECNW	1972-2003
Gobiidae	*Redigobius macrostoma*	19	ECNW	1950-2001
Gobiidae	*Tridentiger trigonocephalus**	11	ECN	1974-2001
Gobiidae	*Trimma necopina*	1	E	1976
Gobiidae	*Valenciennea helsdingenii*	2	E	1973-1974
Gobiidae	*Valenciennea immaculata*	6	E	1972-1976
Gonorynchidae	*Gonorynchus greyi*	2	E	1907-1910
Haemulidae	*Diagramma pictum*	4	E	1973-1986
Haemulidae	*Plectorhinchus flavomaculatus*	3	E	1935-1976
Haemulidae	*Plectorhinchus gibbosus*	1	E	1976
Hemiramphidae	*Arrhamphus sclerolepis*	1	E	1886
Hemiramphidae	*Hemiramphus robustus*	1	E	1908
Hemiramphidae	*Hyporhamphus australis*	12	EC	1881-1950
Hemiramphidae	*Hyporhamphus regularis*	26	EC	1880-1974
Hemiscylliidae	*Hemiscyllium ocellatum*	3	E	1885-1887
Heterodontidae	*Heterodontus galeatus*	27	ECNW	1880-1972
Heterodontidae	*Heterodontus portusjacksoni*	58	EC	1878-2011
Hexanchidae	*Notorynchus cepedianus*	7	E	1884-1930
Holocentridae	*Myripristis berndti*	1	N	1973
Holocentridae	*Ostichthys japonicus*	1	E	1957
Hypnidae	*Hypnos monopterygius*	21	ECN	1880-2001
Istiophoridae	*Istiophorus*	1	E	1954
Istiophoridae	*Makaira*	1	E	2008
Kyphosidae	*Atypichthys strigatus*	21	ECN	1882-2004
Kyphosidae	*Girella cyanea*	6	E	1886-1892
Kyphosidae	*Girella elevata*	8	EN	1881-2000
Kyphosidae	*Girella tricuspidata*	22	ECN	1881-2000
Kyphosidae	*Girella zebra*	2	EN	1959-1973
Kyphosidae	*Kyphosus sydneyanus*	7	E	1883-1991
Kyphosidae	*Microcanthus strigatus*	11	ECN	1882-2001
Kyphosidae	*Scorpis lineolata*	16	ECN	1880-2003
Kyphosidae	*Scorpis violacea*	1	E	2001
Labridae	*Achoerodus viridis*	16	ECN	1892-2001
Labridae	*Anampses caeruleopunctatus*	2	E	1975-2000
Labridae	*Anampses elegans*	1	E	1974
Labridae	*Anampses geographicus*	1	E	1974
Labridae	*Austrolabrus maculatus*	2	E	1974-2001
Labridae	*Bodianus axillaris*	2	EN	1966-1971
Labridae	*Bodianus flavipinnis*	1	E	1973
Labridae	*Bodianus frenchii*	1	E	1887
Labridae	*Bodianus perditio*	1	E	1976
Labridae	*Bodianus unimaculatus*	14	EC	1882-1908
Labridae	*Choerodon cephalotes*	1	N	1984
Labridae	*Cirrhilabrus punctatus*	2	E	1974-2001
Labridae	*Coris aurilineata*	1	E	1974
Labridae	*Coris dorsomacula*	1	E	1976
Labridae	*Coris picta*	2	E	1888-1899
Labridae	*Coris sandeyeri*	2	E	1959-1963
Labridae	*Eupetrichthys angustipes*	5	EN	1887-2001
Labridae	*Haletta semifasciata*	6	E	1885-2000
Labridae	*Halichoeres hartzfeldi*	5	E	1973-1976
Labridae	*Halichoeres hortulanus*	2	E	1885
Labridae	*Halichoeres marginatus*	1	E	1974
Labridae	*Halichoeres nebulosus*	2	E	1974-1976
Labridae	*Halichoeres prosopeion*	1	E	1975
Labridae	*Hemigymnus melapterus*	1	E	1976
Labridae	*Heteroscarus acroptilus*	19	EN	1878-2001
Labridae	*Iniistius jacksonensis*	2	CN	1881-1980
Labridae	*Labroides dimidiatus*	2	N	1967-1968
Labridae	*Leptojulis cyanopleura*	4	E	1974-1975
Labridae	*Macropharyngodon negrosensis*	1	E	1976
Labridae	*Neoodax balteatus*	16	ENW	1881-2001
Labridae	*Notolabrus gymnogenis*	13	EN	1878-2001
Labridae	*Odax cyanomelas*	18	ECN	1878-2001

Family	Scientifc name	# Records	Regions	Years
Labridae	*Ophthalmolepis lineolatus*	15	EC	1880-2001
Labridae	*Oxycheilinus bimaculatus*	6	E	1973-1976
Labridae	*Pictilabrus laticlavius*	17	EN	1881-2001
Labridae	*Pseudojuloides elongatus*	9	E	1973-1998
Labridae	*Pseudolabrus guentheri*	19	ECN	1881-2003
Labridae	*Pseudolabrus luculentus*	2	E	1974-1976
Labridae	*Pteragogus enneacanthus*	1	E	2001
Labridae	*Stethojulis interrupta*	4	E	1974-1976
Labridae	*Stethojulis strigiventer*	3	E	1974-1976
Labridae	*Suezichthys arquatus*	2	EN	1976-1977
Labridae	*Suezichthys devisi*	2	E	2001-2003
Labridae	*Suezichthys gracilis*	1	E	1976
Labridae	*Thalassoma amblycephalum*	1	E	1975
Labridae	*Thalassoma lunare*	5	E	1973-2001
Lamnidae	*Carcharodon carcharias*	1	E	2004
Lamnidae	*Isurus oxyrinchus*	5	E	1883-1999
Latridae	*Latridopsis forsteri*	5	EC	1882-2000
Leiognathidae	*Photoplagios moretoniensis*	4	EN	1953-1979
Leptoscopidae	*Lesueurina platycephala*	6	E	1989-1999
Lethrinidae	*Lethrinus genivittatus*	6	E	1973-2001
Lethrinidae	*Lethrinus miniatus*	3	EC	1880-1976
Lethrinidae	*Lethrinus nebulosus*	7	EN	1881-1974
Limnichthyidae	*Limnichthys fasciatus*	3	E	1908-2001
Lobotidae	*Lobotes surinamensis*	2	E	1892-1893
Lophiidae	*Lophiomus setigerus*	1	E	1964
Lutjanidae	*Lutjanus adetii*	3	E	1975-1976
Lutjanidae	*Lutjanus argentimaculatus*	1	E	1953
Lutjanidae	*Lutjanus fulviflamma*	1	E	1974
Lutjanidae	*Lutjanus fulvus*	1	E	1984
Lutjanidae	*Lutjanus kasmira*	2	E	1887-1974
Lutjanidae	*Lutjanus quinquelineatus*	1	E	1885
Lutjanidae	*Lutjanus russelli*	2	E	1965-1974
Lutjanidae	*Paracaesio xanthura*	1	E	1973
Lutjanidae	*Pterocaesio chrysozona*	1	E	1976
Lutjanidae	*Pterocaesio digramma*	1	E	1976
Macrorhamphosidae	*Centriscops humerosus*	1	N	1972
Macrorhamphosidae	*Macroramphosus gracilis*	1	E	1889
Macrorhamphosidae	*Macroramphosus scolopax*	2	E	1977-1981
Megalopidae	*Megalops cyprinoides*	7	E	1892-2000
Microdesmidae	*Parioglossus marginalis*	2	CN	1973-2001
Microdesmidae	*Ptereleotris hanae*	1	E	1976
Microdesmidae	*Ptereleotris microlepis*	1	E	1974
Mobulidae	*Manta birostris*	2	E	1888
Molidae	*Mola mola*	2	E	1882
Monacanthidae	*Acanthaluteres spilomelanurus*	17	ECN	1886-2001
Monacanthidae	*Acanthaluteres vittiger*	9	ECN	1881-2001
Monacanthidae	*Aluterus monoceros*	2	E	1895-1946
Monacanthidae	*Aluterus scripta*	3	EN	1881-1991
Monacanthidae	*Brachaluteres jacksonianus*	35	ECN	1879-2001
Monacanthidae	*Chaetodermis penicilligera*	2	EN	1976-1980
Monacanthidae	*Eubalichthys mosaicus*	4	EW	1885-1886
Monacanthidae	*Meuschenia flavolineata*	2	E	1973-1998
Monacanthidae	*Meuschenia freycineti*	20	ECN	1903-2001
Monacanthidae	*Meuschenia scaber*	1	E	2011
Monacanthidae	*Meuschenia trachylepis*	15	ECN	1887-2001
Monacanthidae	*Meuschenia venusta*	1	E	1976
Monacanthidae	*Monacanthus chinensis*	52	ECNW	1885-2001
Monacanthidae	*Nelusetta ayraudi*	19	ECN	1880-2001
Monacanthidae	*Paraluteres prionurus*	1	E	1973
Monacanthidae	*Paramonacanthus filicauda*	2	E	1946-1973
Monacanthidae	*Paramonacanthus otisensis*	7	E	1973-1977
Monacanthidae	*Pervagor melanocephalus*	1	E	1976
Monacanthidae	*Scobinichthys granulatus*	20	EC	1903-2001
Monocentrididae	*Cleidopus gloriamaris*	8	ECN	1881-2003
Monodactylidae	*Monodactylus argenteus*	7	ECN	1885-2001
Monodactylidae	*Schuettea scalaripinnis*	8	E	1887-2004
Moridae	*Lotella rhacina*	10	ECN	1879-2001
Moridae	*Pseudophycis barbata*	5	E	1886-1972
Moridae	*Pseudophycis breviuscula*	1	C	1881
Mugilidae	*Liza argentea*	30	ECNW	1881-2001

Family	Scientifc name	# Records	Regions	Years
Mugilidae	*Mugil cephalus*	39	ECNW	1880-1999
Mugilidae	*Myxus elongatus*	17	ENW	1931-2000
Mugilidae	*Valamugil georgii*	1	N	1977
Mullidae	*Parupeneus barberinoides*	1	N	1976
Mullidae	*Parupeneus barberinus*	1	E	1886
Mullidae	*Parupeneus ciliatus*	2	EC	2001
Mullidae	*Parupeneus spilurus*	22	ECN	1881-2001
Mullidae	*Upeneichthys lineatus*	43	EN	1885-2003
Mullidae	*Upeneus australiae*	5	EN	1901-2001
Muraenesocidae	*Muraenesox bagio*	1	C	1881
Muraenidae	*Gymnothorax cribroris*	3	E	1974-1982
Muraenidae	*Gymnothorax kidako*	1	E	1976
Muraenidae	*Gymnothorax minor*	1	E	1997
Muraenidae	*Gymnothorax prasinus*	10	E	1961-2001
Muraenidae	*Gymnothorax prionodon*	1	E	1885
Myliobatididae	*Myliobatis australis*	2	EN	1881-1885
Narcinidae	*Narcine tasmaniensis*	1	E	1972
Nemipteridae	*Nemipterus theodorei*	2	E	1974-1980
Nemipteridae	*Pentapodus aureofasciatus*	2	E	1973-1975
Nemipteridae	*Scolopsis bilineata*	2	E	1973-1976
Nemipteridae	*Scolopsis monogramma*	1	E	1976
Nomeidae	*Nomeus gronovii*	1	E	1988
Nomeidae	*Psenes pellucidus*	1	N	1957
Odontaspididae	*Carcharias taurus*	8	EC	1879-1888
Ophichthidae	*Malvoliophis pinguis*	2	E	1898-1929
Ophichthidae	*Ophisurus serpens*	7	EN	1885-1982
Ophichthidae	*Scolecenchelys australis*	12	EN	1881-1998
Opistognathidae	*Opistognathus jacksoniensis*	13	ECN	1881-1902
Orectolobidae	*Orectolobus halei*	1	E	1972
Orectolobidae	*Orectolobus maculatus*	15	EC	1881-1934
Ostraciidae	*Anoplocapros inermis*	40	ECN	1879-1995
Ostraciidae	*Lactoria cornuta*	7	EN	1892-1976
Ostraciidae	*Lactoria diaphana*	3	EN	1885-1984
Ostraciidae	*Lactoria fornasini*	5	EN	1974-1976
Ostraciidae	*Ostracion cubicus*	3	E	1974-1981
Ostraciidae	*Tetrosomus reipublicae*	19	ECN	1878-2001
Paralichthyidae	*Pseudorhombus arsius*	34	ECN	1880-2001
Paralichthyidae	*Pseudorhombus dupliciocellatus*	2	E	1930-1973
Paralichthyidae	*Pseudorhombus jenynsii*	17	ECN	1882-2001
Paralichthyidae	*Pseudorhombus tenuirastrum*	5	ECN	1879-1973
Pataecidae	*Pataecus fronto*	1	E	1897
Pegasidae	*Eurypegasus draconis*	1	E	1885
Pegasidae	*Pegasus volitans*	3	EW	1965-1977
Pempheridae	*Pempheris affinis*	7	E	1912-2004
Pempheridae	*Pempheris compressa*	20	ECW	1880-2004
Pempheridae	*Pempheris multiradiata*	4	E	1974-2001
Pentacerotidae	*Paristiopterus labiosus*	1	E	1981
Pentacerotidae	*Zanclistius elevatus*	2	E	1888-2000
Percichthyidae	*Macquaria colonorum*	16	ECN	1882-1978
Percophidae	*Percophidae*	1	E	1991
Pinguipedidae	*Parapercis australis*	1	E	1973
Pinguipedidae	*Parapercis binivirgata*	1	E	1947
Pinguipedidae	*Parapercis nebulosa*	7	ECN	1879-1980
Pinguipedidae	*Parapercis ramsayi*	3	E	1916-1974
Pinguipedidae	*Parapercis stricticeps*	1	E	1976
Platycephalidae	*Ambiserrula jugosa*	8	EC	1885-2001
Platycephalidae	*Platycephalus bassensis*	2	E	none
Platycephalidae	*Platycephalus caeruleopunctatus*	5	E	1893-1999
Platycephalidae	*Platycephalus endrachtensis*	3	E	1886-1999
Platycephalidae	*Platycephalus fuscus*	32	ECNW	1880-2001
Platycephalidae	*Platycephalus longispinis*	12	EN	1895-1998
Platycephalidae	*Platycephalus marmoratus*	1	E	1888
Platycephalidae	*Platycephalus richardsoni*	1	E	1885
Platycephalidae	*Thysanophrys cirronasa*	10	EC	1882-2001
Plesiopidae	*Paraplesiops bleekeri*	8	ECN	1881-2000
Plesiopidae	*Trachinops taeniatus*	22	E	1915-2004
Pleuronectidae	*Ammotretis rostratus*	28	EN	1885-1999
Plotosidae	*Cnidoglanis macrocephalus*	19	ECN	1882-1998
Plotosidae	*Euristhmus lepturus*	8	NW	1887-1912
Plotosidae	*Plotosus lineatus*	4	EN	1976-2001

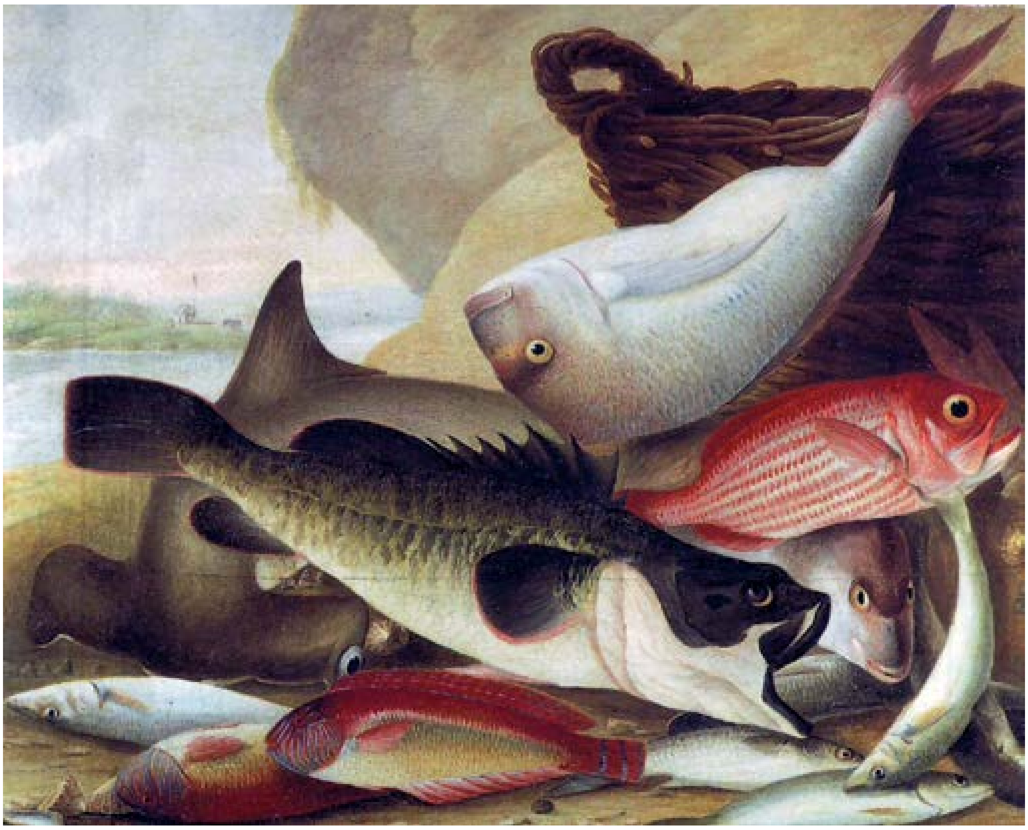
Family	Scientifc name	# Records	Regions	Years
Plotosidae	*Tandanus tandanus*	1	W	1885
Poeciliidae	*Gambusia holbrooki**	44	NW	1941-2003
Pomacanthidae	*Centropyge bispinosa*	1	E	1976
Pomacanthidae	*Centropyge flavicauda*	1	E	1976
Pomacanthidae	*Centropyge tibicen*	1	E	1973
Pomacanthidae	*Chaetodontoplus meredithi*	2	EN	1972-1976
Pomacentridae	*Abudefduf bengalensis*	1	N	1974
Pomacentridae	*Abudefduf sexfasciatus*	1	E	1977
Pomacentridae	*Abudefduf vaigiensis*	5	E	1962-1976
Pomacentridae	*Chromis hypsilepis*	1	E	1974
Pomacentridae	*Chromis nitida*	2	E	1974-2001
Pomacentridae	*Chrysiptera brownriggii*	1	E	1888
Pomacentridae	*Chrysiptera notialis*	1	E	1974
Pomacentridae	*Chrysiptera starcki*	1	E	1973
Pomacentridae	*Chrysiptera tricincta*	1	E	1976
Pomacentridae	*Dascyllus trimaculatus*	1	E	1977
Pomacentridae	*Mecaenichthys immaculatus*	14	EN	1885-2001
Pomacentridae	*Neopomacentrus azysron*	1	E	1976
Pomacentridae	*Parma microlepis*	15	E	1885-2003
Pomacentridae	*Parma oligolepis*	1	E	1976
Pomacentridae	*Parma unifasciata*	4	E	1944-2001
Pomacentridae	*Pomacentrus australis*	3	N	1968-1972
Pomacentridae	*Pomacentrus coelestis*	2	E	1973-1976
Pomacentridae	*Pomacentrus wardi*	1	E	1974
Pomacentridae	*Pristotis obtusirostris*	6	EN	1881-1986
Pomacentridae	*Stegastes gascoynei*	2	E	1973-2001
Pomatomidae	*Pomatomus saltatrix*	30	ECNW	1880-2000
Priacanthidae	*Priacanthus macracanthus*	14	ECN	1880-1976
Pristidae	*Pristis zijsron*	1	E	1901
Pristiophoridae	*Pristiophorus cirratus*	9	E	1885-1921
Rachycentridae	*Rachycentron canadum*	13	ECN	1881-2000
Rajidae	*Dipturus australis*	1	C	1883
Regalecidae	*Regalecus glesne*	1	E	1899
Retropinnidae	*Retropinna semoni*	1	E	1911
Rhinobatidae	*Aptychotrema rostrata*	8	EC	1885-1943
Rhinobatidae	*Trygonorrhina fasciata*	34	ECNW	1878-1909.5
Rhynchobatidae	*Rhynchobatus australiae*	1	E	1885
Scaridae	*Calotomus spinidens*	1	E	1974
Scaridae	*Leptoscarus vaigiensis*	2	E	1959-2001
Scaridae	*Scarus ghobban*	1	N	1974
Scatophagidae	*Scatophagus argus*	1	E	1949
Scatophagidae	*Selenotoca multifasciata*	5	EC	1880-2000
Schindleriidae	*Schindleria praematura*	1	E	1989
Sciaenidae	*Argyrosomus japonicus*	4	ECW	1906-1976
Sciaenidae	*Atractoscion aequidens*	5	EN	1885-1974
Scomberesocidae	*Scomberesox saurus*	1	E	1887
Scombridae	*Auxis rochei*	1	N	1958
Scombridae	*Auxis thazard*	3	EC	1903-1910
Scombridae	*Cybiosarda elegans*	2	E	1927-1974
Scombridae	*Euthynnus affinis*	4	EN	1908-1999
Scombridae	*Katsuwonus pelamis*	1	E	1974
Scombridae	*Sarda australis*	6	EN	1881-1906
Scombridae	*Scomber australasicus*	2	EC	1885-1910
Scombridae	*Scomberomorus commerson*	3	E	1884-1908
Scombridae	*Scomberomorus queenslandicus*	2	E	1886-1907
Scorpaenidae	*Ablabys taenianotus*	2	E	1976
Scorpaenidae	*Dendrochirus brachypterus*	11	EN	1885-2003
Scorpaenidae	*Dendrochirus zebra*	3	E	1895-1974
Scorpaenidae	*Glyptauchen panduratus*	3	EC	1882-1905
Scorpaenidae	*Notesthes robusta*	1	W	1976
Scorpaenidae	*Pterois antennata*	3	EN	1966-1976
Scorpaenidae	*Pterois volitans*	10	E	1896-2001
Scorpaenidae	*Scorpaena jacksoniensis*	31	ECN	1880-2004
Scorpaenidae	*Scorpaena papillosa*	6	EC	1880-1981
Scorpaenidae	*Scorpaenodes evides*	7	EN	1885-1998
Scorpaenidae	*Scorpaenopsis insperatus*	2	E	2001
Scorpaenidae	*Scorpaenopsis neglecta*	1		2011
Scorpaenidae	*Scorpeanodes scaber*	1	E	1972
Scorpaenidae	*Taenianotus triacanthus*	2	E	1976
Scyliorhinidae	*Asymbolus analis*	12	EN	1885-1941

Family	Scientifc name	# Records	Regions	Years
Sebastidae	*Sebastiscus marmoratus**	1	E	1980
Serranidae	*Acanthistius ocellatus*	14	ECN	1880-1980
Serranidae	*Acanthistius paxtoni*	1	E	1973
Serranidae	*Caesioperca lepidoptera*	1	E	1974
Serranidae	*Caprodon longimanus*	1	E	2000
Serranidae	*Diploprion bifasciatum*	1	N	1974
Serranidae	*Epinephelus cyanopodus*	2	E	1908-1966
Serranidae	*Epinephelus daemelii*	9	EC	1880-1976
Serranidae	*Epinephelus ergastularius*	1	E	1976
Serranidae	*Epinephelus undulatostriatus*	11	EN	1878-1967
Serranidae	*Hypoplectrodes annulata*	17	EC	1882-2000
Serranidae	*Hypoplectrodes jamesoni*	3	EN	1976-2001
Serranidae	*Hypoplectrodes maccullochi*	16	EC	1881-2004
Serranidae	*Hypoplectrodes nigroruber*	10	E	1885-2003
Serranidae	*Trachypoma macracanthus*	1	E	1974
Serranidae	*Variola louti*	2	E	1976-2000
Siganidae	*Siganus fuscescens*	13	EN	1887-2000
Sillaginidae	*Sillago ciliata*	38	ECN	1880-2000
Sillaginidae	*Sillago flindersi*	3	E	1972-1973
Sillaginidae	*Sillago maculata*	14	ECN	1880-1990
Sillaginidae	*Sillago robusta*	3	E	1927-1984
Soleidae	*Aseraggodes nigrocirratus*	2	E	1886
Soleidae	*Brachirus nigra*	18	EC	1881-1967
Soleidae	*Pardachirus hedleyi*	5	E	1893-1973
Soleidae	*Soleichthys microcephalus*	10	EN	1885-2003
Soleidae	*Synclidopus macleayanus*	4	ECN	1880-1972
Soleidae	*Zebrias quagga*	1	C	1879
Soleidae	*Zebrias scalaris*	2	EN	1882-1887
Solenostomidae	*Solenostomus cyanopterus*	2	EN	1976
Solenostomidae	*Solenostomus paradoxus*	8	EN	1973-1998
Sparidae	*Acanthopagrus australis*	41	ECNW	1881-2001
Sparidae	*Dentex spariformis*	1	N	1965
Sparidae	*Pagrus auratus*	25	ECN	1881-2003
Sparidae	*Rhabdosargus sarba*	26	ECNW	1880-1999
Sphyraenidae	*Sphyraena obtusata*	8	E	1886-1991
Sphyraenidae	*Sphyraena waitii*	1	E	1909.5
Sphyrnidae	*Sphyrna lewini*	3	EC	1878-1920.5
Sphyrnidae	*Sphyrna zygaena*	7	EC	1878-1891
Squalidae	*Squalus megalops*	3	ECN	1880-1888
Squatinidae	*Squatina australis*	2	CN	1879-1939
Stegostomatidae	*Stegostoma fasciatum*	2	E	1947-1959
Syngnathidae	*Festucalex cinctus*	41	ECN	1882-2003
Syngnathidae	*Filicampus tigris*	20	EN	1885-2000
Syngnathidae	*Heraldia nocturna*	8	EN	1969-1975
Syngnathidae	*Hippocampus abdominalis*	8	ECN	1916-2003
Syngnathidae	*Hippocampus whitei*	41	ECNW	1880-2012
Syngnathidae	*Histiogamphelus briggsii*	1	E	1976
Syngnathidae	*Lissocampus runa*	1	E	1982
Syngnathidae	*Maroubra perserrata*	8	E	1974-2004
Syngnathidae	*Notiocampus ruber*	2	E	1885
Syngnathidae	*Phyllopteryx taeniolatus*	17	ECN	1880-2009
Syngnathidae	*Solegnathus spinosissimus*	5	E	1886-1999
Syngnathidae	*Stigmatopora argus*	12	EC	1880-1990
Syngnathidae	*Stigmatopora nigra*	23	EN	1965-2001
Syngnathidae	*Trachyrhamphus bicoarctatus*	3	E	1945-1976
Syngnathidae	*Urocampus carinirostris*	10	EN	1951-1999
Syngnathidae	*Vanacampus margaritifer*	14	EN	1886-2001
Synodontidae	*Saurida nebulosa*	2	EN	1974-1976
Synodontidae	*Saurida tumbil*	3	ECN	1881-1895
Synodontidae	*Saurida undosquamis*	7	EN	1886-1973
Synodontidae	*Synodus variegatus*	2	E	1973-1974
Synodontidae	*Trachinocephalus myops*	14	ECN	1885-2000
Terapontidae	*Pelates sexlineatus*	18	ECN	1887-2001
Terapontidae	*Terapon jarbua*	2	E	1974
Tetraodontidae	*Arothron firmamentum*	2	E	1915
Tetraodontidae	*Arothron hispidus*	3	E	1886-1974
Tetraodontidae	*Arothron stellatus*	3	EN	1886-1970
Tetraodontidae	*Canthigaster coronata*	1	E	1976
Tetraodontidae	*Canthigaster valentini*	1	E	1974
Tetraodontidae	*Lagocephalus inermis*	9	ENW	1945-1977

Family	Scientifc name	# Records	Regions	Years
Tetraodontidae	*Lagocephalus sceleratus*	6	EC	1878-1890
Tetraodontidae	*Lagocephalus spadiceus*	1	E	1981
Tetraodontidae	*Reicheltia halsteadi*	10	ECN	1956-1999
Tetraodontidae	*Tetractenos glaber*	3	EN	1974-1999
Tetraodontidae	*Tetractenos hamiltoni*	22	ECNW	1885-1999
Tetraodontidae	*Torquigener altipinnis*	3	E	1929-1976
Tetraodontidae	*Torquigener perlevis*	2	E	1977-1978
Tetraodontidae	*Torquigener pleurogramma*	8	EN	1893-1999
Tetraodontidae	*Torquigener squamicauda*	6	EN	1972-1999
Tetrarogidae	*Centropogon australis*	50	ECN	1879-2003
Trachichthyidae	*Optivus agastos*	6	E	1965-2001
Trachichthyidae	*Trachichthys australis*	19	ECNW	1884-2001
Trachipteridae	*Trachipterus jacksonensis*	7	EN	1880-1985
Triakidae	*Galeorhinus galeus*	12	ECN	1880-1965
Triakidae	*Mustelus antarcticus*	6	EN	1909-1975
Trichiuridae	*Lepidopus caudatus*	1	E	1937
Trichiuridae	*Trichiurus lepturus*	3	EN	1951-1972
Triglidae	*Chelidonichthys kumu*	25	ECNW	1880-1972
Triglidae	*Lepidotrigla argus*	1	E	1976
Triglidae	*Lepidotrigla mulhalli*	1	E	1888
Triglidae	*Lepidotrigla papilio*	15	E	1882-2001
Triglidae	*Lepidotrigla umbrosa*	1	E	1973
Triglidae	*Pterygotrigla polyommata*	11	EC	1881-1892
Tripterygiidae	*Brachynectes fasciatus*	2	C	2001
Tripterygiidae	*Ceratobregma helenae*	1	E	1974
Tripterygiidae	*Enneapterygius atrogulare*	21	EN	1887-2004
Tripterygiidae	*Enneapterygius larsonae*	1	E	1976
Tripterygiidae	*Lepidoblennius haplodactylus*	6	EN	1881-1939
Tripterygiidae	*Trinorfolkia clarkei*	21	EC	1888-2004
Uranoscopidae	*Ichthyscopus barbatus*	1	E	1999
Uranoscopidae	*Kathetostoma laeve*	5	E	1890-2000
Urolophidae	*Urolophus bucculentus*	1	E	1972
Urolophidae	*Urolophus kapalensis*	1	E	1981
Urolophidae	*Urolophus testaceus*	13	E	1887-1977
Urolophidae	*Urolophus viridis*	1	E	1887
Zanclidae	*Zanclus cornutus*	1	E	2009
Zeidae	*Zeus faber*	17	E	1909-2000

None – indicates no year of collecting is recorded in database.

APPENDIX 2



This unusual painting of the early 19th century shows a highly creative arrangement of freshly caught fishes - some are lying on the sand, while others appear to be floating as if they are still in the waters of Sydney Harbour (visible in the background). Most of the fishes portrayed in their relative sizes were common to the Sydney Harbour waters almost 200 years ago but the largest fish is one of the freshwater cods and is unlikely to have been caught in the harbour. The fishes include (from the top) snapper, hammerhead shark, redfish, freshwater cod, Southern maori wrasse, whiting and sea mullet. Painted in oils by Australia's first professional artist, John Lewin (1770-1819), the work measures 86.5 cm x 113.0 cm. It depicts a site that today has iconic status within Australia - the fish are arranged on the shore at Kirribilli Point; the view behind the fish stretches south across Sydney Harbour to Dawes Point, where the southern end of the Sydney Harbour Bridge is now located; in the distance, the hip-roofed guardhouse and flagpole of the former Dawes Point Battery can also be seen. Postcard no. 00086 © Copyright of the Art Gallery Board of South Australia 1993 (original painting held in the Art Gallery of south Australia).